

PRECISION v16.1 Release Notes

March 2016

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: 16.1

Release Date: March 2016

The following tables detail the PRECISION/QAD TMS 16.1 release:

Table 1
PRECISION Components

Component	Sub-Components	Current Release	Previous Release
PRECISION	Base Global Trade Management (GTM)	16.1	16.0
Web UI	Base Package Exception Management (PEM) Trade Compliance (TC)	5.1	5.0
	Transportation Management System (TMS)	S40	S39
	Win UI	R04	R04
Tools	Highway	4.1.0	4.0
	ePage	2.4.6.0	2.4.6.0
	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	J16
	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)	16.1	16.0
Web UI	Base Package Exception Management (PEM) Trade Compliance (TC)	5.1	5.0
	Freight Management	S40	S39
	Win UI	R04	R04
Tools	Highway	4.1.0	4.0
	ePage	2.4.6.0	2.4.6.0
	PRECISIONView	5.7.0	5.7.0
eCustoms	Germany - ATLAS	R09	R09
	United Kingdom - NES	R03	R03
	United States - AES	R09	R08

Web UI 5.1

The current Web UI version is 5.1. It contains a number of enhancements.

Note For detailed information on these new features, see *PRECISION Web UI 5.1 – Net Change Guide*, which is included with the PRECISION v16.1 release.

Trade Compliance

Ad Hoc Checking

In the Ad Hoc Compliance Screen page, CKADH, you can now enter additional shipping details and perform a wider number of compliance checks. You can now track shipments from the sender’s desk to the recipient’s desk.

Fig. 1
Ad Hoc Compliance Checking

Previously, it was only possible to specify name and address information and to perform denied party and embargoed country checks. Now, you can also enter product, ECCN, and commodity details. Table 3 displays the checks that you can perform.

Table 3
Available Ad Hoc Compliance Checks

Check	Description
DPL	Denied/Restricted Party
EBC	Embargoed Country
KEYWORD	Keywords
ECLI	Dual use
EXLI	Permits and Guarantees
PRCT	Product to country of destination
RPRC	Permitted products to country of destination
PRNR	Product to partner

Check	Description
CITC	Commodity to country of destination
CITP	Commodity to partner
EXCT	ECCN to country of destination

The Ad Hoc Compliance Screen page allows you to specify reference information to associate with the compliance run; you must enter at least one reference.

Information that you entered in a previous ad hoc check is now remembered and loaded the next time that you use the CKADH option.

A Clear button is now available. When clicked, the button clears all fields and removes any data in the grids.

Depending on the checks that you select, fields become mandatory or remain optional.

Notifications

Your administrator can configure Compliance to notify you by e-mail when a compliance result is available. This is not a new feature; however, the configuration to define when these notifications occur has changed. The notification configuration for when Compliance runs initially is now separate from the notification configuration for manual override actions, which occur later.

Compliance Results

You can now answer master partner, commodity, and product questions directly within the Compliance Results page. The results page shows a question mark icon that you can click to access an Answer Question pop-up window.

If a compliance has an ECLI check that fails and you add a license to the line, you can set the line to Passed Manually or Passed. The same feature is also available for EXLI and Questionnaires checks.

You can also set the overall compliance run to Passed Manually.

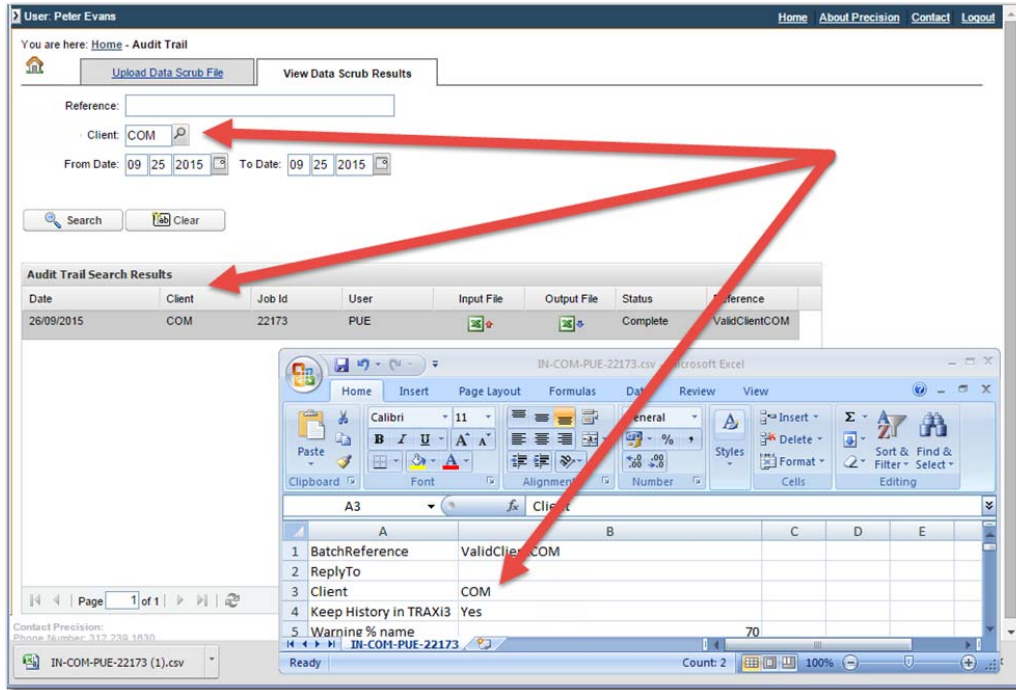
Table 4
Compliance Statuses

Category	Key	Description
COMPLIANCE	ECLI MANUAL STATUS	Possible values: <ul style="list-style-type: none"> • yes • no
COMPLIANCE	EXLI MANUAL STATUS	
COMPLIANCE	QE MANUAL STATUS	

Compliance Data Scrub

It is now possible to specify the client in a data scrub upload file. In the Data Scrub page, you can now search based on the client when viewing data scrub results.

Fig. 2
Data Scrub Upload File



Configuring Compliance Checks

The Compliance Admin page (CK) has been enhanced to allow administrators to configure all supported compliance checks, define security privileges, and set up result notifications from a single page.

Fig. 3
Compliance Admin Page

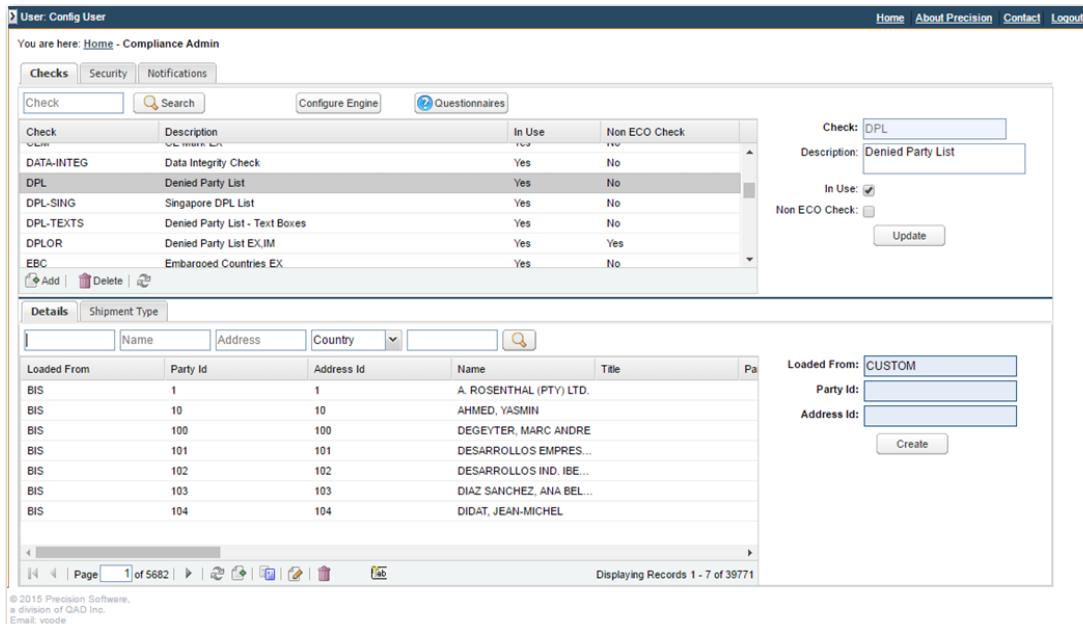
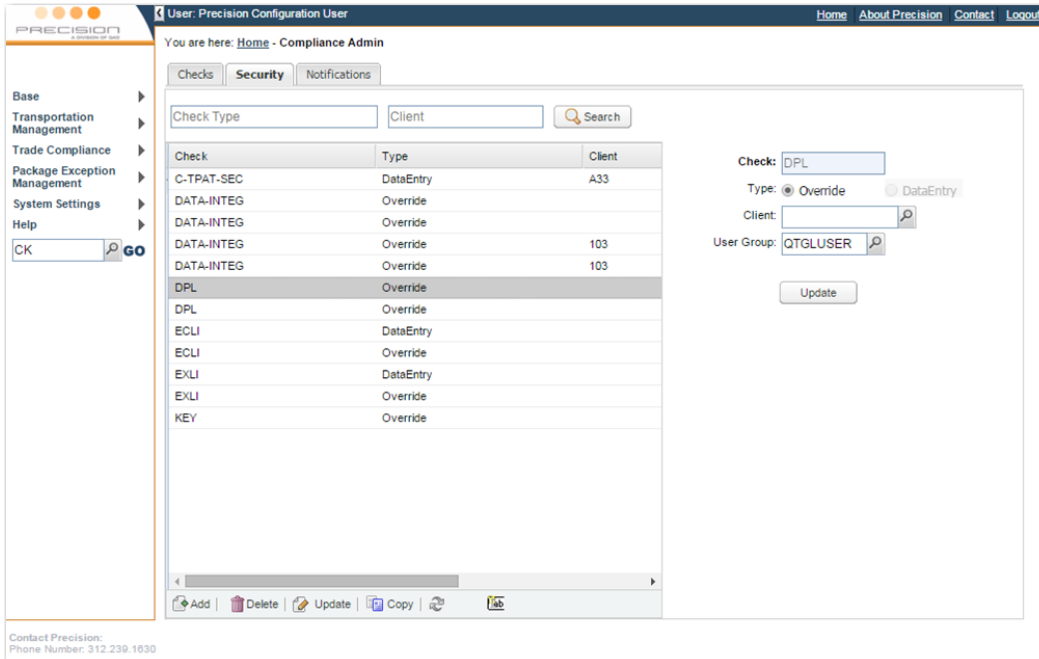


Fig. 4
Compliance Security



The Compliance Admin pages now provide the facility to quickly jump to:

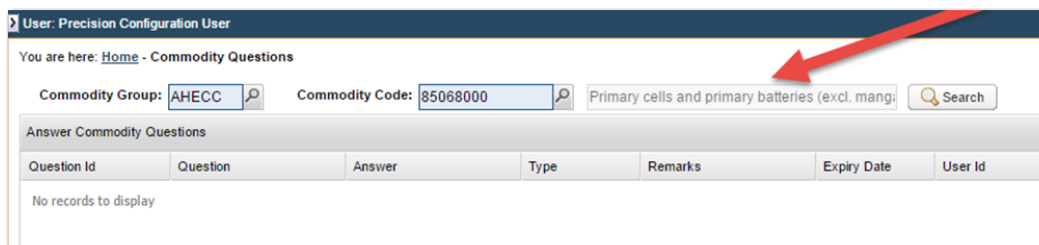
- The System Values page (Y3) to view and maintain compliance engine specific system values
- The Questionnaires page (QE) to view and maintain questions and questionnaires

Depending on the check you select, the bottom section of the page changes to accommodate the data associated with the check.

Configuring Questions and Questionnaires

The option to specify commodity questions (CMAN) has been enhanced to include the commodity description for which questions are being answered.

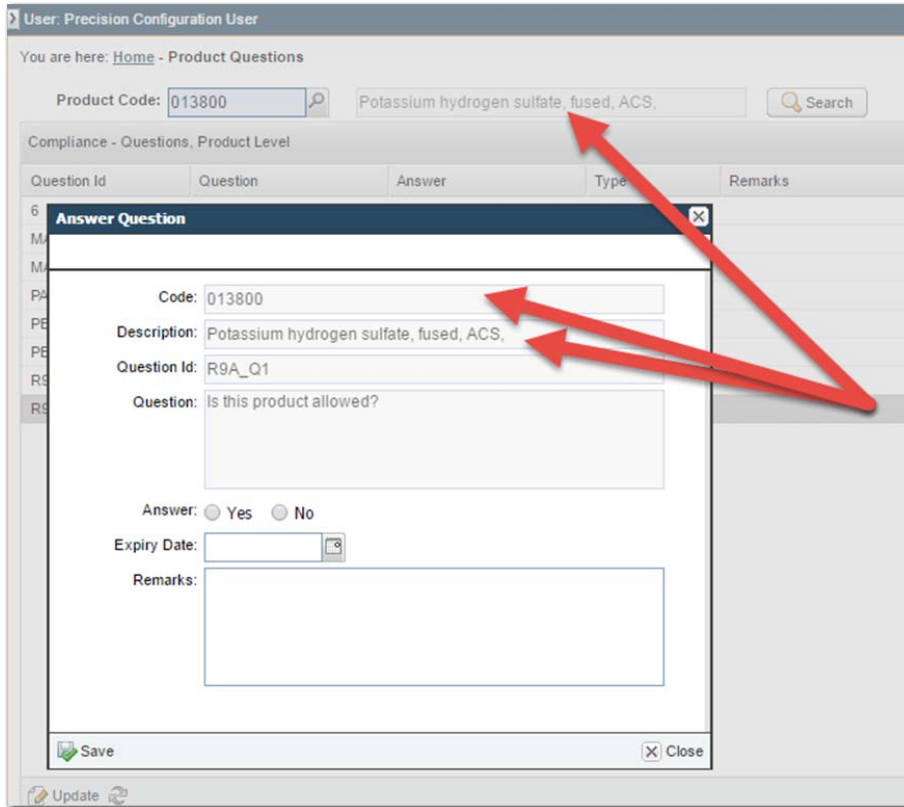
Fig. 5
Configuring a Commodity Question



The commodity code and description are now also shown in the Answer Question popup.

The option to specify product questions (PRAN) has been enhanced to include the product description for which questions are being answered. The product code and description show in the Answer Question popup.

Fig. 6
Question with Description



Similarly, the option to specify partner questions (NRAN) has been enhanced to include the partner name for which questions are being answered. The partner code and name are now also shown in the Answer Question popup.

The last modified date, time, and user are now displayed on the PRAN, NRAN, and CMAN pages to clearly indicate when a question was last answered and by whom.

The search fields on the NRAN, PRAN, and CMAN pages are now mandatory. If a search field is empty, this means that, for example, the partner reference search field is now mandatory on the Partner Questions (NRAN) page.

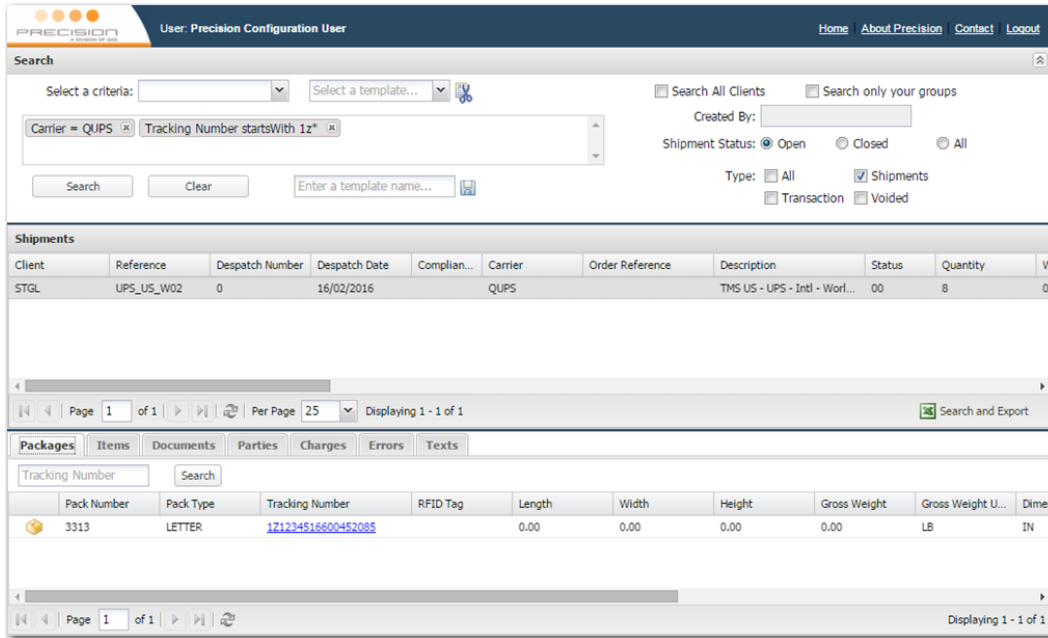
In addition, improvements and corrections were made to the maintenance of questions at specific role levels, as well as for all roles.

Base

Inquiry

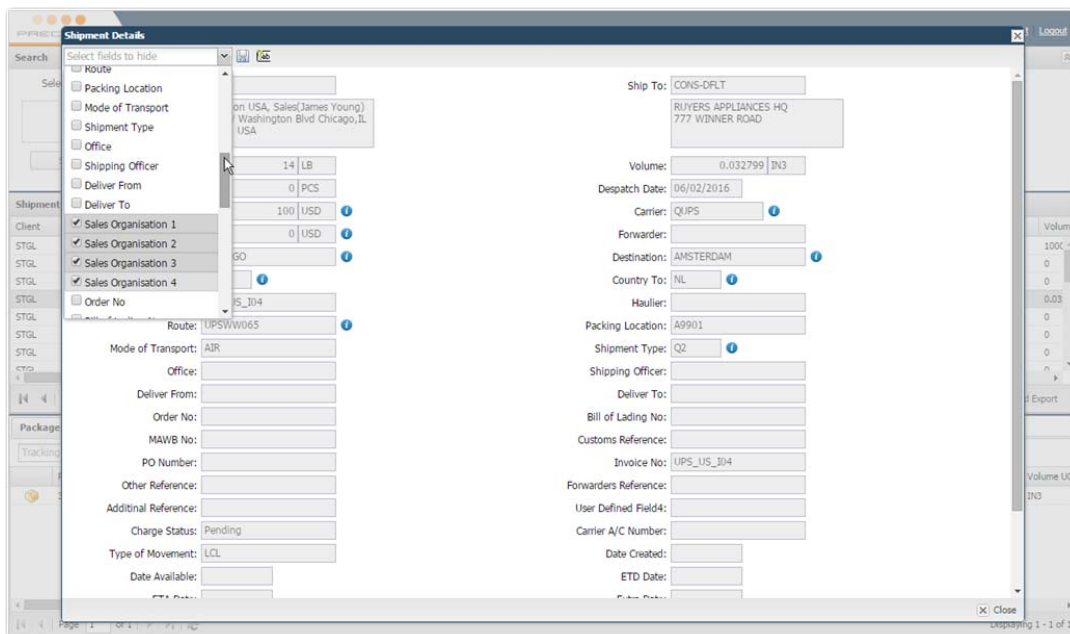
A new inquiry REPORT option is available that allows you to search for transactions in the application.

Fig. 7
New Inquiry REPORT Option



The search area uses tags that you can pull into a search area and define with search criteria. You can now save search information as a search template, which you can pull up at a later time. Double-click on a shipment to open a popup with shipment header details, which you can configure.

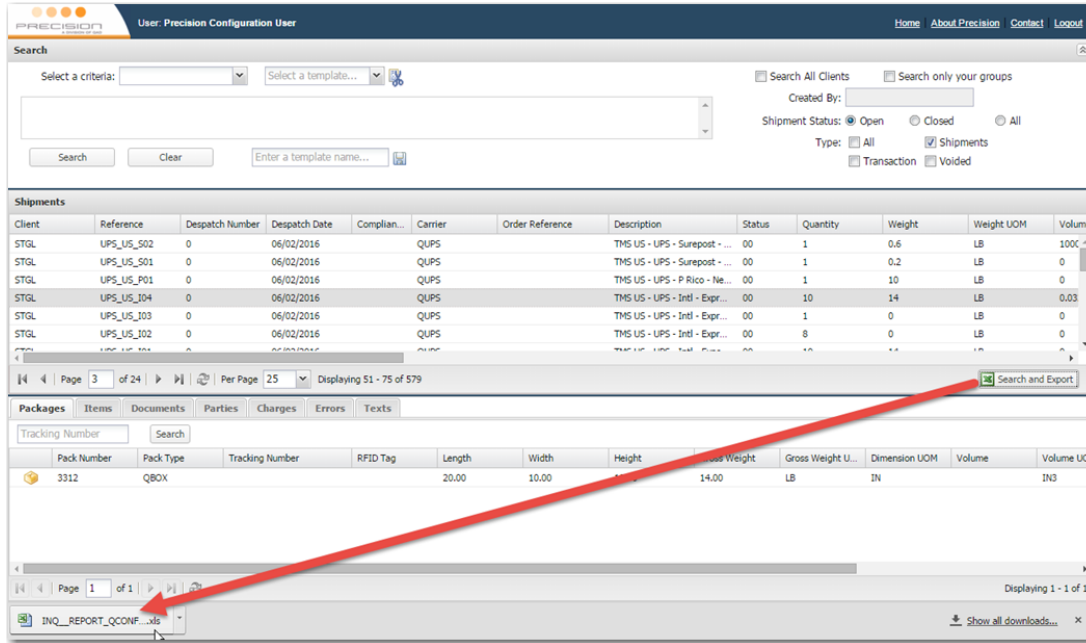
Fig. 8
Shipment Details



Select a shipment to populate the bottom section of the page with package, item, document, charge, address, error, and shipment text details.

You can export all information in the Shipments grid to an Excel file, as shown in Figure 9.

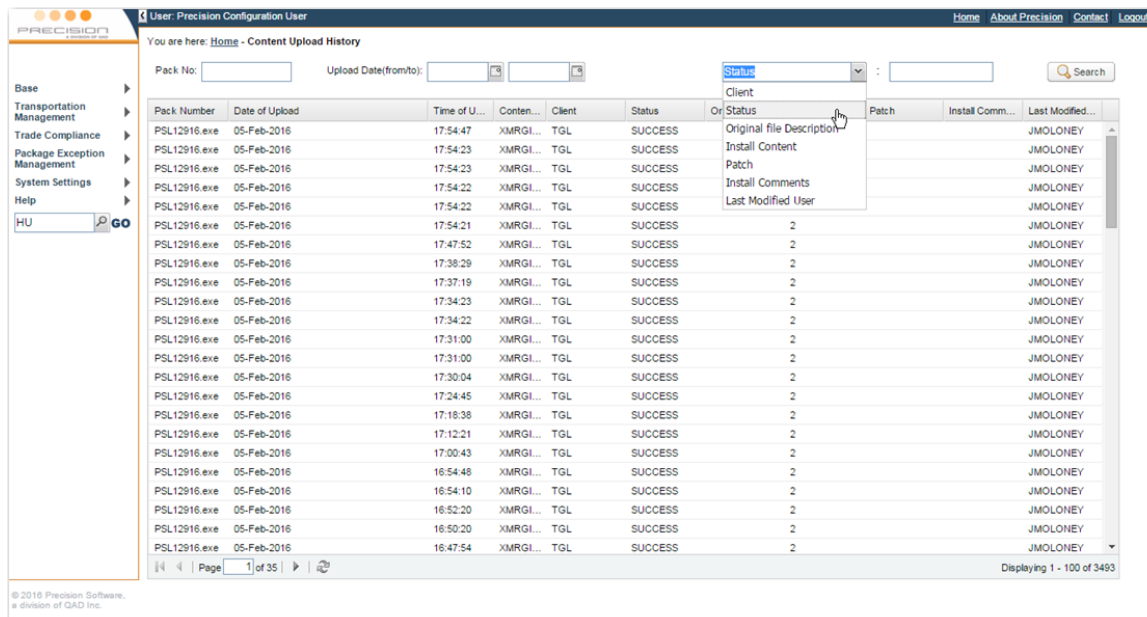
Fig. 9
Shipments Grid, Export to Excel Option



Automatic Content Updates

A new HU option is available that allows administrators to view content packs that have been automatically uploaded into PRECISION.

Fig. 10
Content Upload History



- Data is automatically sorted in descending order by date of upload.
- You can filter data by pack and by uploaded date range.
- The data on the page is read only.

Load Building

The ability to work with loads from within the Workflow portal is now available. You can view loads, query load information, and view tasks for a specific load.

From the Workflow toolbar, you can create a new load, reopen a load, delete a load, and run rules against a load.

You can also link a task to the Create option to ensure that the task is run automatically when a load is created using the Create popup.

You can add the following load-level tasks to the load workflow:

- Load Header (GR)
- Update Load Shipment (WFTLOA)
- Documents (WFTDOC)
- Print Document (BBSVRT)
- Close Load (CLOSGR)

When you update a load, bear the following in mind:

- You can use a multi-create shipment selection list.
- You can only add open shipments to a load.
- Loads added to a shipment are closed.
- Shipments removed from a load are reopened.
- Updates affect gross weight and volume totals.
- When you make updates, the application ensures that the Workflow Close task is synchronized with the shipment's opened or closed status.
- The Load Document task only allows you to add load-level documents to a load.

Fig. 11
Load Document Task

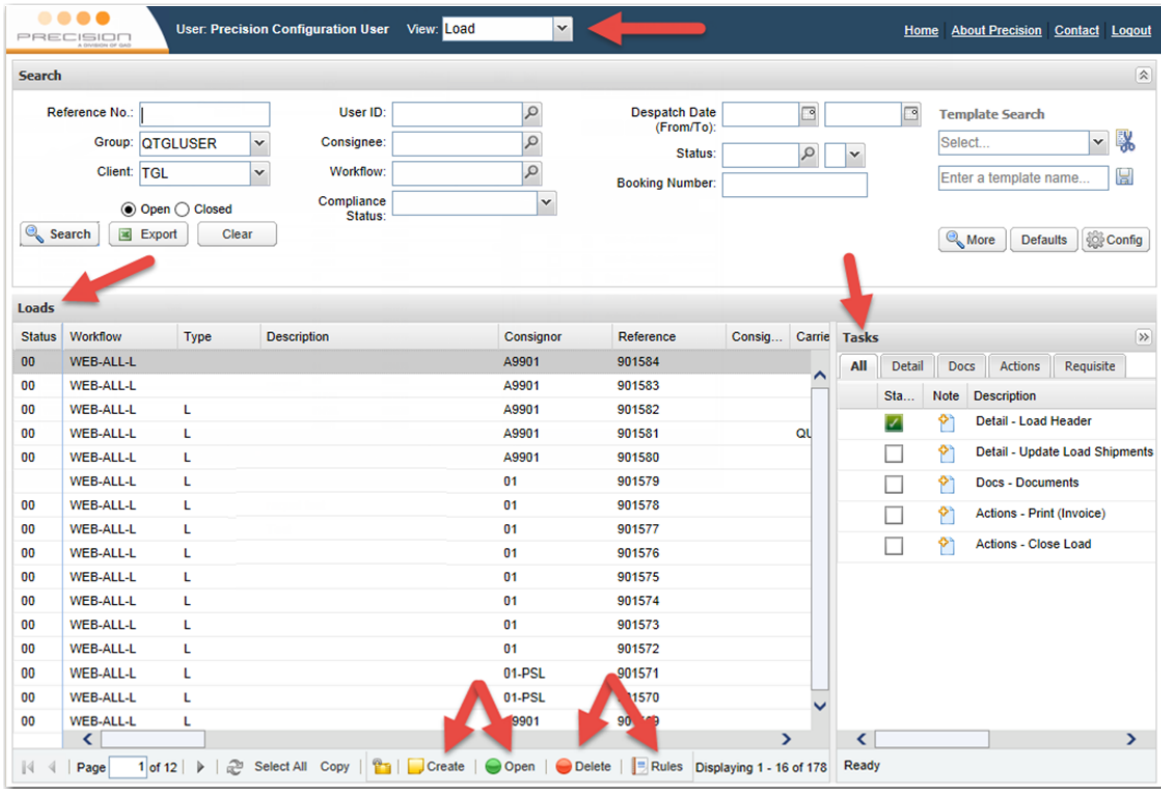
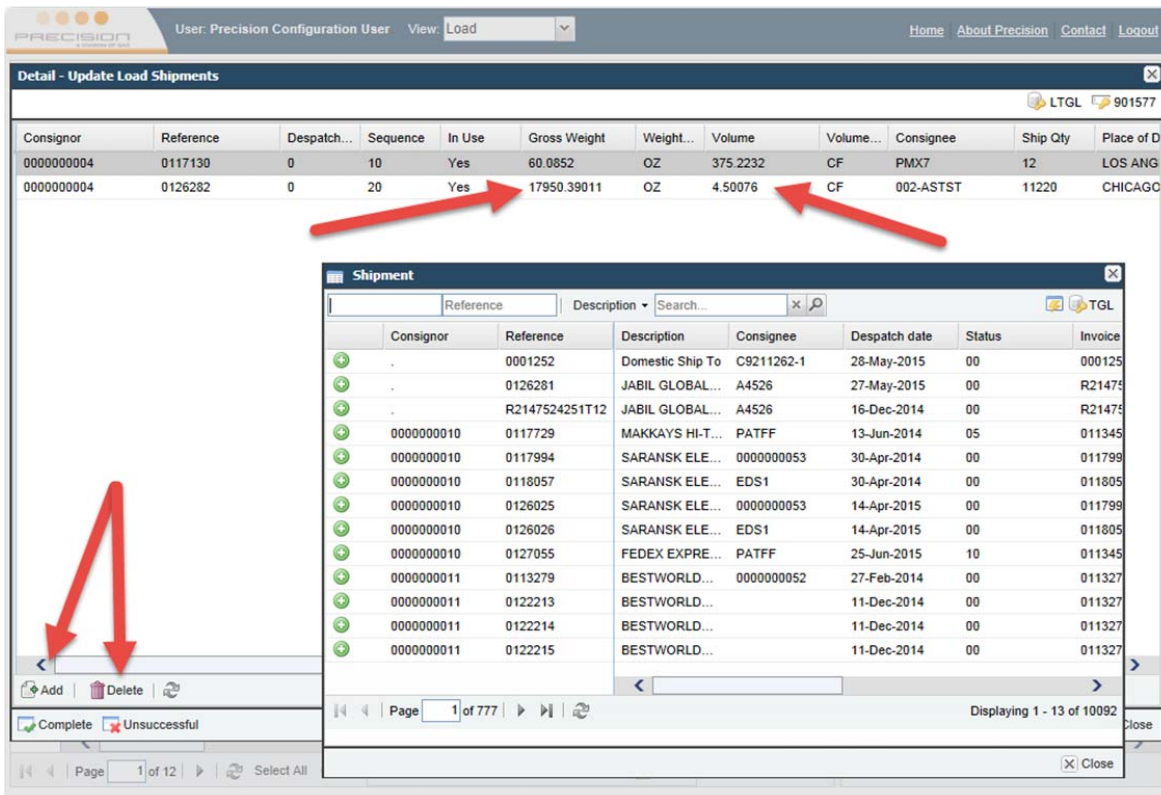


Fig. 12
Update Load Shipments



Workflow

The search template feature on the Workflow Portal page has been enhanced to support global templates. You can now create a search template for a given user using the Workflow page and then copy the generated user-level system value to define it at a global level for all to use. You can also copy the values to be group-level system values, if required.

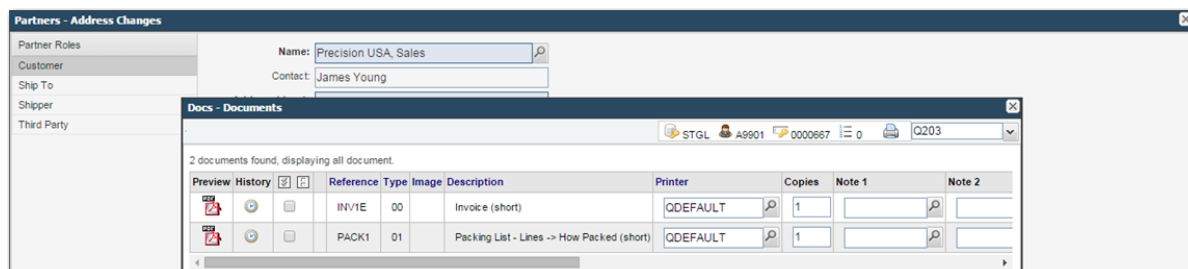
If you change a template value, it is saved as a user-level system value.

When you run a Workflow task, you now have the option to jump to another task, while keeping the existing task open. A new drop-down menu is available in the top left area of the task window. Select another task from this menu to open the new task popup over the existing one.

Fig. 13
Jump to Task, Document Task Selected



Fig. 14
Document Task Pops Up with Address Task Remaining Open Behind



You cannot jump to more than one task at a time.

The logic that locks a shipment when a task is run against it has changed. If the user requesting a lock on a shipment is different to the user deemed to be using the shipment, Workflow raises an “already in use” error.

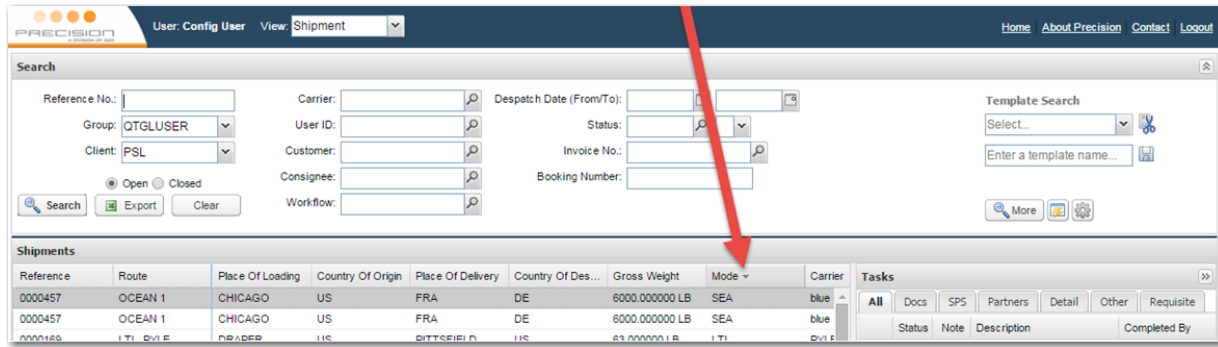
Tasks listed in the Jump menu are configured using the Show on Jump menu flag on the Workflow Task definition record. Tasks marked as Windows UI only tasks are not included.

You can now sort the transaction data in the Workflow grid. Click the column header area to sort the data in descending order. Select the column again to change the sort order to ascending. Select another column to switch the data to sort by that column.

You can only sort by a single column. Sorting by a second column within an initial sort is not possible.

The sort column is identified by a triangle icon.

Fig. 15
Sorting Transaction Data

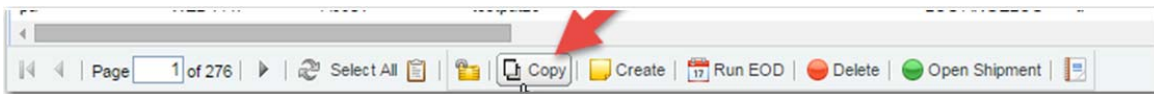


The functionality that runs a check before running the selected Workflow task is now more consistent with Windows UI behavior. Now, the following happens:

- When a prerequisite check is of type ERROR and the check fails, an alert popup with an OK button is displayed. Click OK to close the popup. You are prevented from running the task.
- When a prerequisite check is of type WARNING and the check fails, an alert popup with an OK button is displayed. Click OK to continue running the task.
- When a prerequisite check is of type WARNING, Allow Cancel is set to True, and a check fails, an alert popup opens with both an OK and a CANCEL button. Click OK to continue running the task. Click CANCEL to close the popup and cancel the task.

You can now configure the Workflow toolbar to include a Copy button, which allows you to copy a selected transaction.

Fig. 16
Copy Button

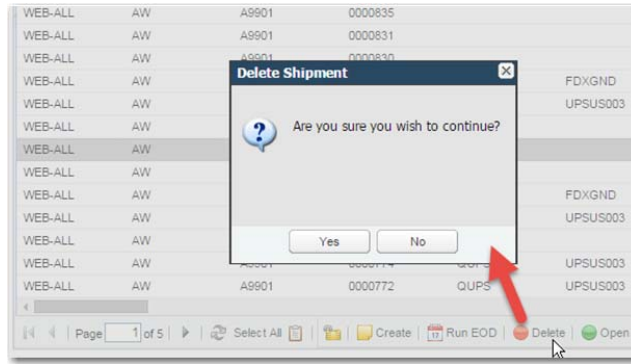


Click the Copy button to open a Copy popup window similar to that of the Create popup, which allows you to view and modify data prior to creating a shipment.

The clipboard Copy button is no longer labeled Copy. Instead, it just shows a clipboard image icon.

You can now configure the Workflow toolbar to ensure that users must register their confirmation prior to performing an action. This facility is useful if users must confirm the Delete action after they click the Delete button.

Fig. 17
Delete Shipment Confirmation Popup

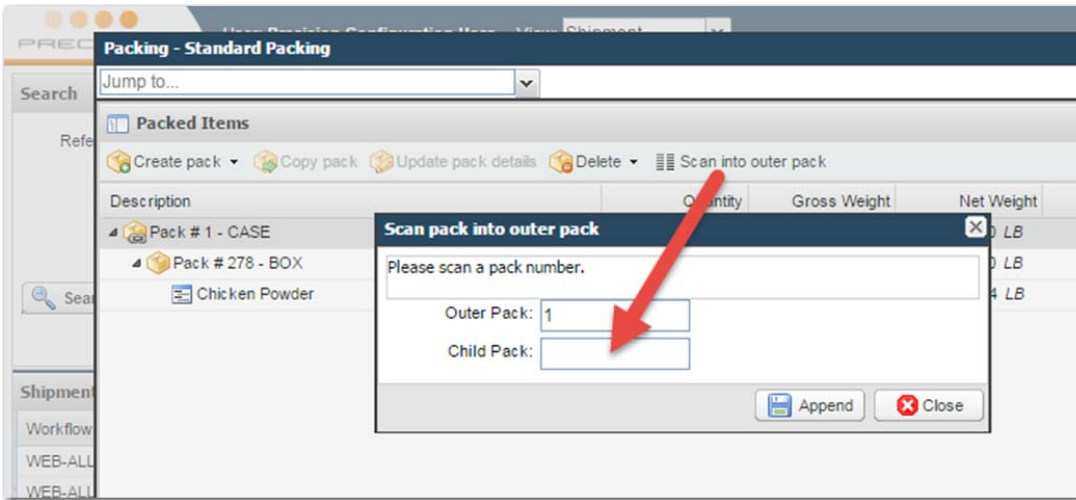


Y3 WORKLOAD TOOLBAR – S ...,label:Delete;tooltip:Delete
Shipment;option:BBSDEL;transaction:Yes;icon:icon54;confirm:Yes,...

Workflow Tasks

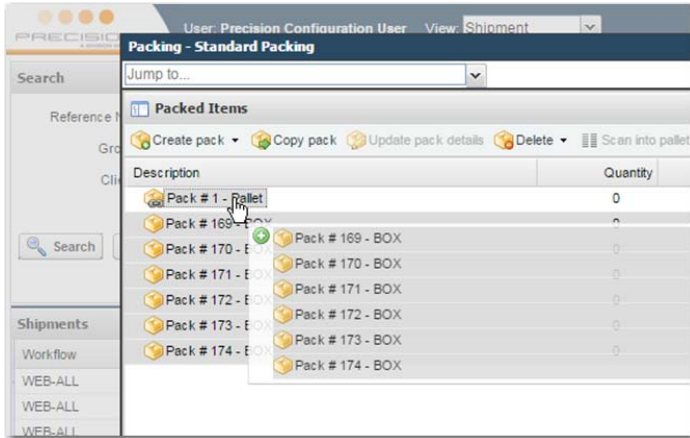
The Standard Packing task has been enhanced to allow you to scan pack numbers to quickly add packs to an outer pack. Select the outer pack, and then click the Scan to Outer Pack button. Enter the first pack number, press F2, and repeat the process until all required packs are added to the outer pack.

Fig. 18
Scan Pack into Outer Pack



The Standard Packing task has been enhanced to allow you to select multiple packs and drag them onto an outer pack.

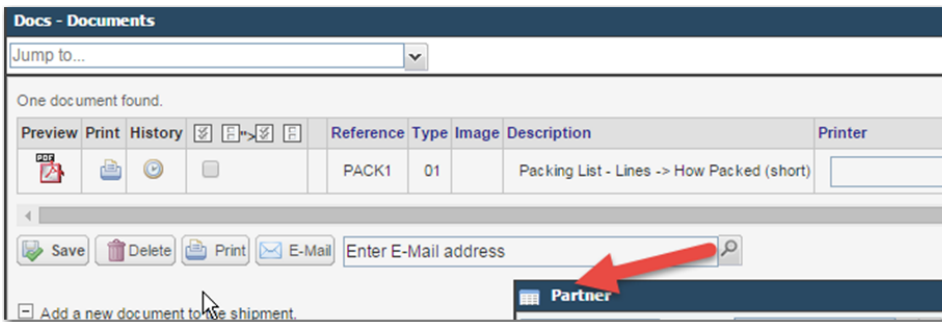
Fig. 19
Standard Packing, Drag and Drop



The Manifest task has been enhanced to warn you if you have updated data and risk losing the data unless you opt to save the changes.

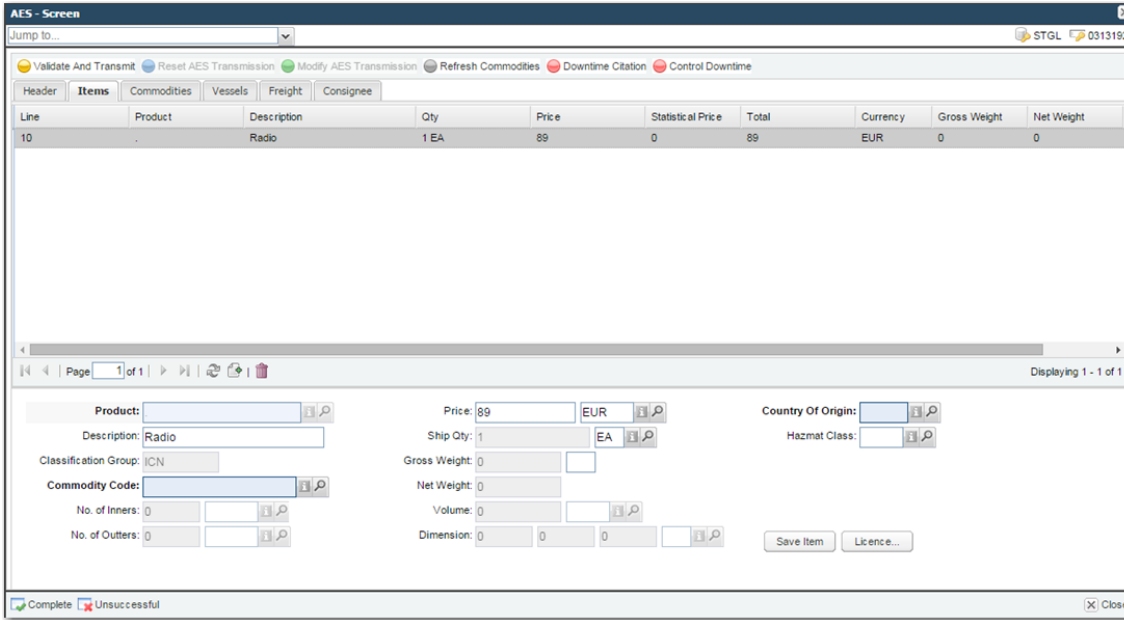
The Documents task has been enhanced to allow you to pull in an e-mail address from the Partner lookup.

Fig. 20
Documents Task, Partner Lookup



The AES task has been enhanced to take advantage of the screen space available to better display the data in the grids and forms. When you resize the window, the page elements are sized to the best fit.

Fig. 21
AES Screen



The following ATLAS 2.3 updates and fixes were made:

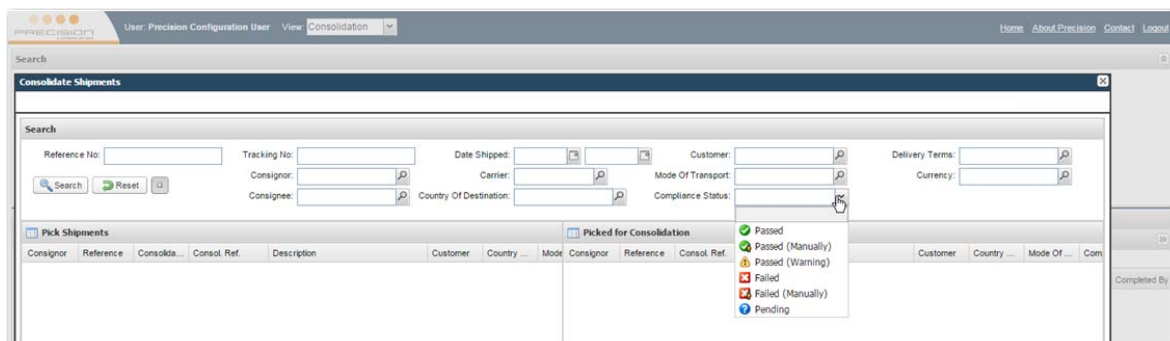
- New XSL style sheets were added.
- ATLAS validation errors were resolved.
- The Declaration type field size was changed to 5 instead of 3 on the EU Customs Shipment Header task.

The End User field was removed from the EU Customs Shipment Header task, and the Process Owner (role 11) and Special Event Indicator fields were added.

Workflow Pouching (Consolidations)

The Search feature has been enhanced to include additional shipment criteria.

Fig. 22
Additional Shipment Criteria



You can now specify the following new criteria:

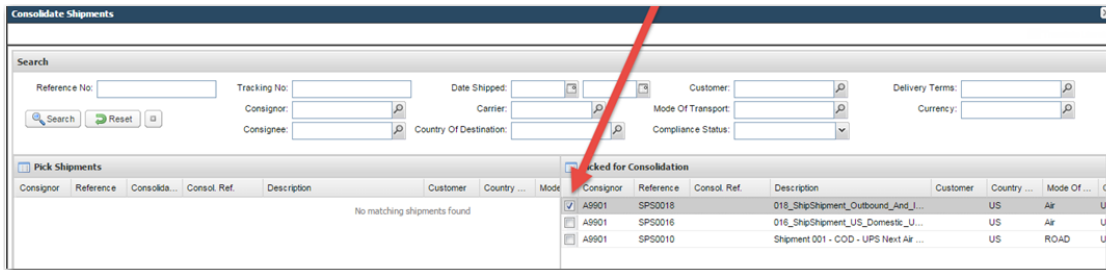
- Customer
- Country of Destination
- Delivery Terms

- Mode of Transport
- Currency
- Compliance Status

The additional shipment data is now also displayed in the Pick and Picked grids.

You can now mark one of the shipments to be consolidated as the lead shipment. The lead shipment is used as the primary source of data to copy to the consolidated shipment.

Fig. 23
Consolidate Shipments



The validation that checks if the selected shipments can be consolidated has been modified to include additional shipment fields that must be matched. You can now prevent shipments from being consolidated if they have failed compliance or have had details transmitted to AES.

Note The system values that control consolidation have changed and you must review the existing system value CONSOL:SKIP VALIDATION CHECKS as part of any upgrade.

The Compliance task can now automatically be run against a newly created consolidation.

You can now prevent a user from deleting a consolidation if it has been submitted to AES.

The toggle button that allows you to switch between adding a shipment to the picked grid automatically when a search is performed or adding the shipment to a pick grid first has changed. The popup alert now clearly indicates if the feature has been enabled or disabled.

When a shipment is added to or removed from a consolidation, the action has the following effects:

- A closed shipment does not show in the Pick Shipments grid.
- A shipment that is already consolidated does not show in the Pick Shipments grid.
- A shipment is now closed once it is consolidated.
- A shipment that is removed from a consolidation is reopened.

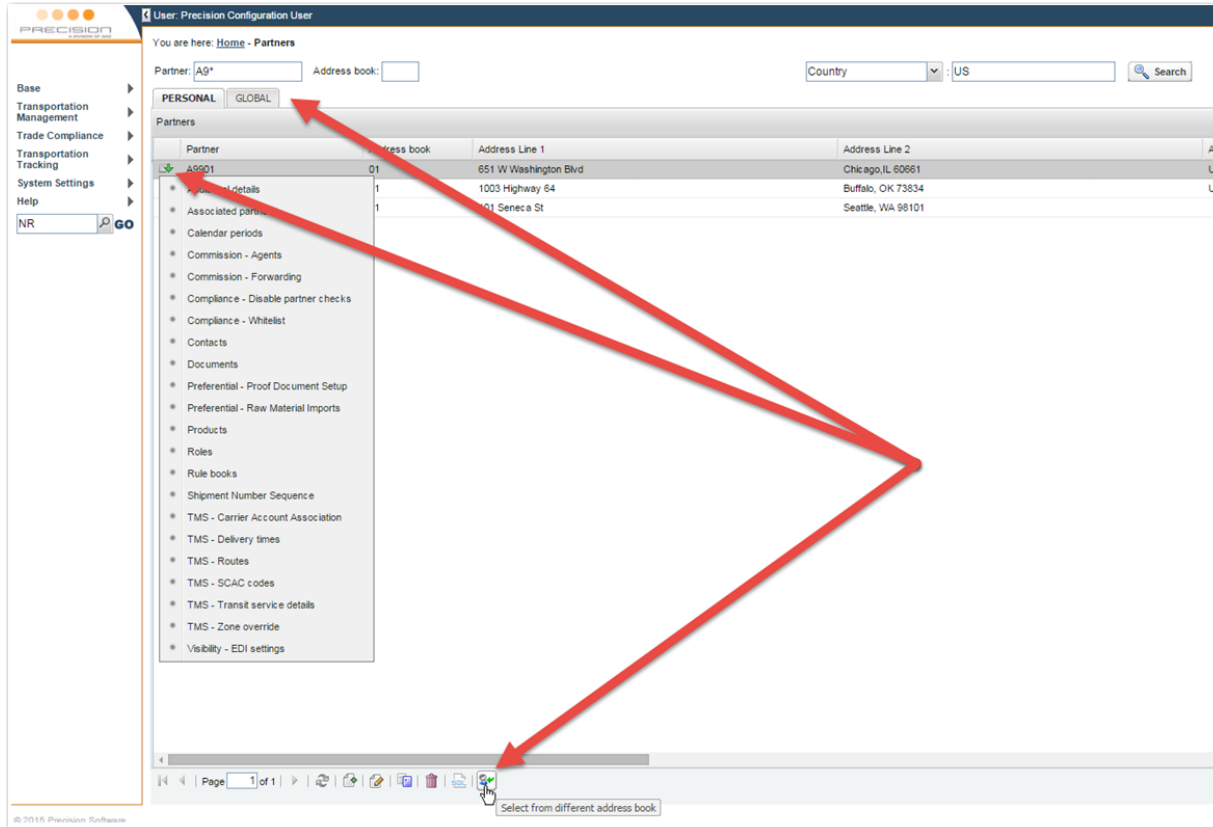
Scan, Pack Ship

Scan, Pack Ship was modified to fix an issue where the net weight was not updated on changing the tare weight if the gross weight has been overridden.

Master Maintenance

The Partner Maintenance page (NR) has been updated to include the tabbed view features of the old NR page and to provide a full set of partner sub-options.

Fig. 24
Partner Maintenance

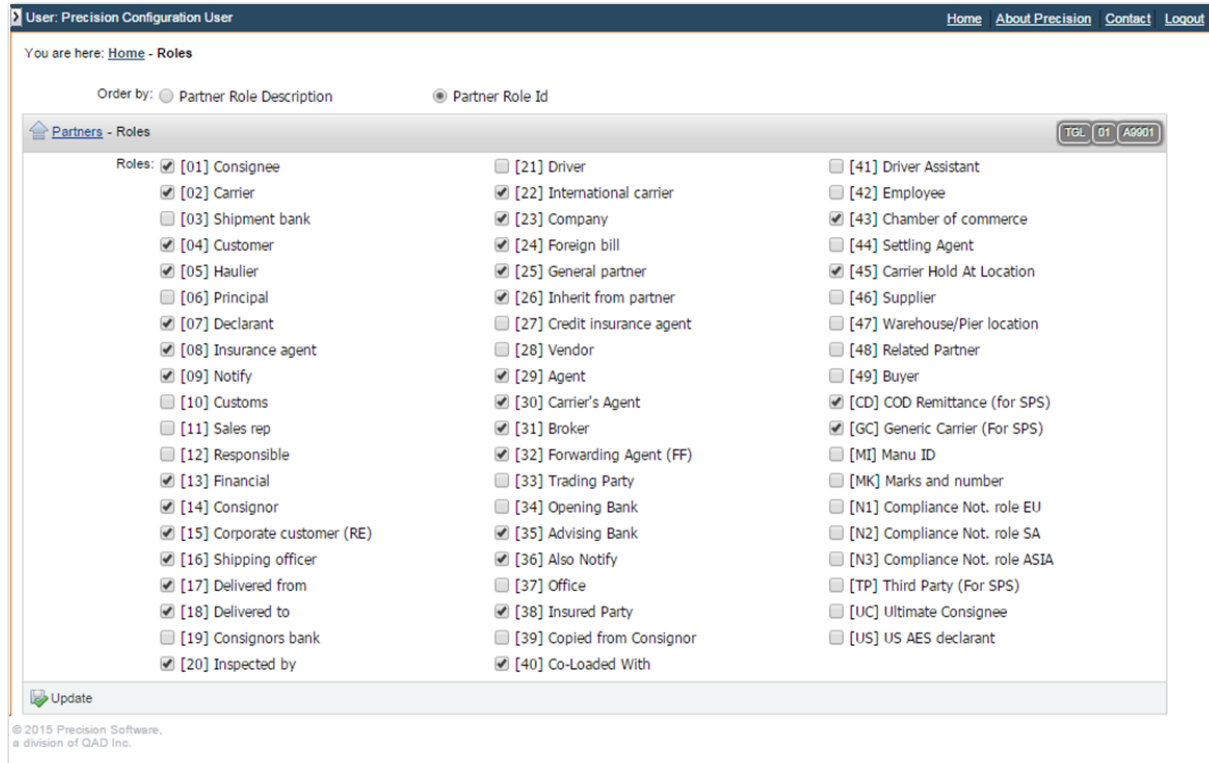


The old Partner Maintenance page is still available using the new option code, NRDTS.

The ability to maintain roles for a selected partner using option NR has been enhanced to provide similar functionality to that available in the Windows UI. A Roles sub-option opens a new page that allows you to maintain roles for a given partner record.

The ability to sort by role or by role description is now available.

Fig. 25
Roles, Sort by Role ID or Role Description



Improvements were made to the:

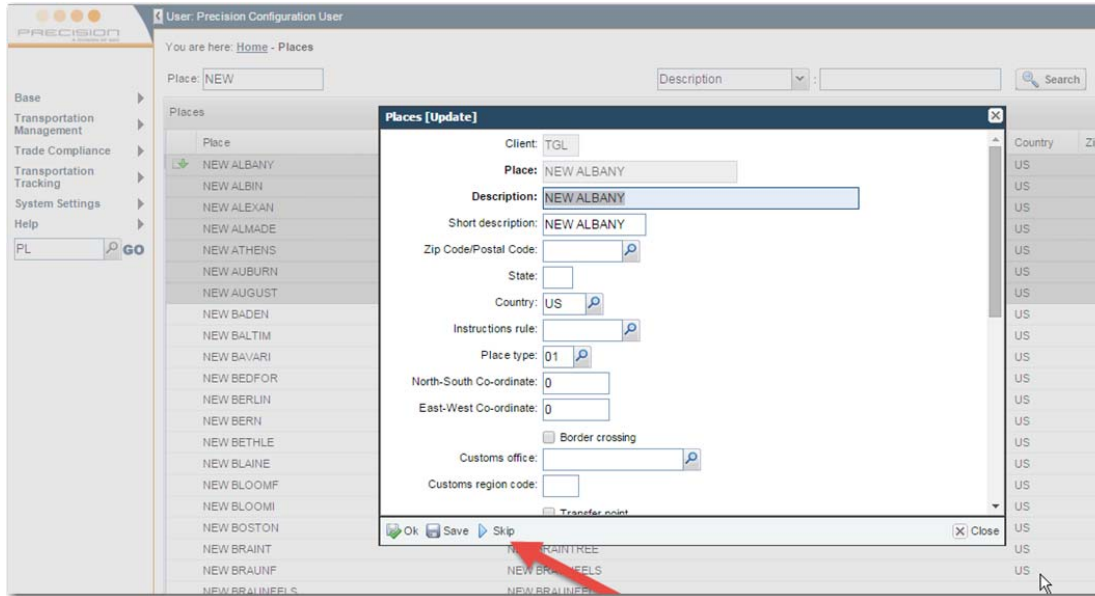
- Workflow Maintenance page (WF)
- Validation performed when creating a new workflow record
- Sorting by sequence functionality in the task grid

The following additional changes were made:

- The page now sizes to fully use the screen size available to it.
- The Update Transaction button now blocks the user from using the page until all shipment workflows have been updated.

In the General Maintenance list pages, you can now perform multi-selects when you update or delete records.

Fig. 26
Multi-Select



Note The multi-select feature is not available when working with sub-options.

- For the wild card functionality for the RULES, PEMCFG, WF, and Y3 pages, you are no longer required to specify a trailing asterisk. This change makes the pages more consistent with other maintenance pages.
- You can now select multiple rule records within the RULES option and then delete the selected records in one transaction.
- The RULES page has been enhanced to allow you to save grid layout information using a Save Layout grid menu item.
- The validation of numeric fields on the General Maintenance pages now uses the correct case tool data that details the numeric length.
- The Time fields on the General Maintenance pages now use the format hh:mm.
- The Master Product List page (PR) now allows you to search for products using child Commodity/ECCN information.

Fig. 27
Search Using ECCN



The following maintenance options have been reviewed, and issues with lookups, deletions, additions, updates, and validations were corrected.

NR, NRND, NRNA, NRCP, NRC7, NRNG, NRXC, NRNL, NRAN, NRCK, NRNC, NRCD, NRDO, NRNT, NRNF, NRNH, ORC, ORR, NRNP, NRNI, NRNB, NRNO, NRCR, NRPD, NRRP, NRSC,

NRNAW, NRTRS, NRNZ, NRTP, UO, UOUF, UA, UAUH, ZR, MK, CTXL, CTIL, CTG, CTGM, BU, BUCG, ZBTX, ZBZD, GU, GUGO, GUSG, GUUR, GUUG, GO

System Values

You can now configure groups of responsibility type SYSTEM_VALUE_GROUP and add users to these groups using the option GU. You can then define system values at a group level. The value applies to users belonging to the group, provided that the same value is not defined at user or user client level.

Fig. 28
System Value Group

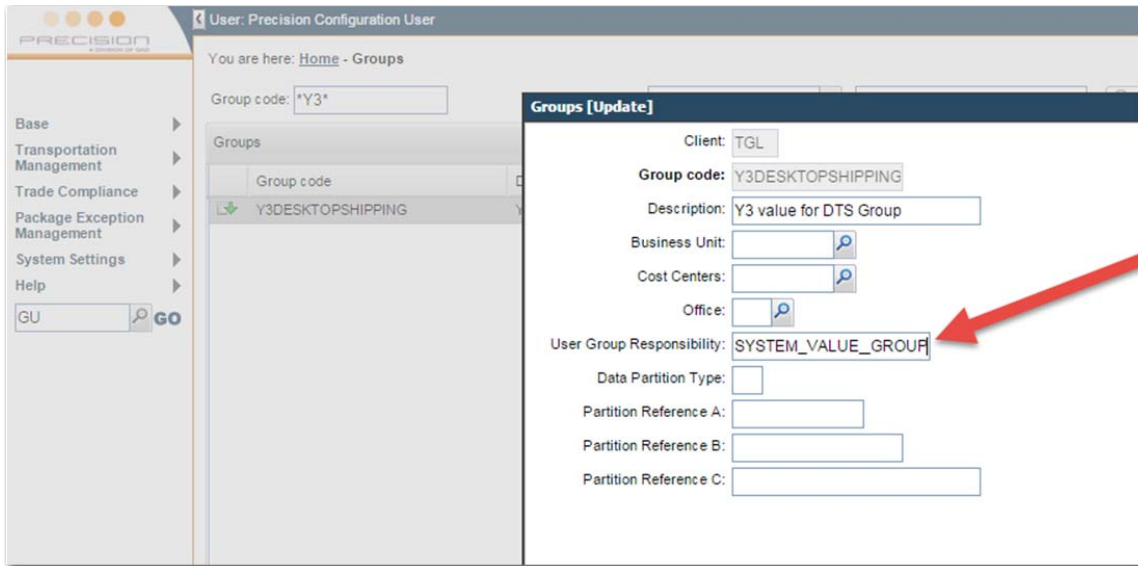
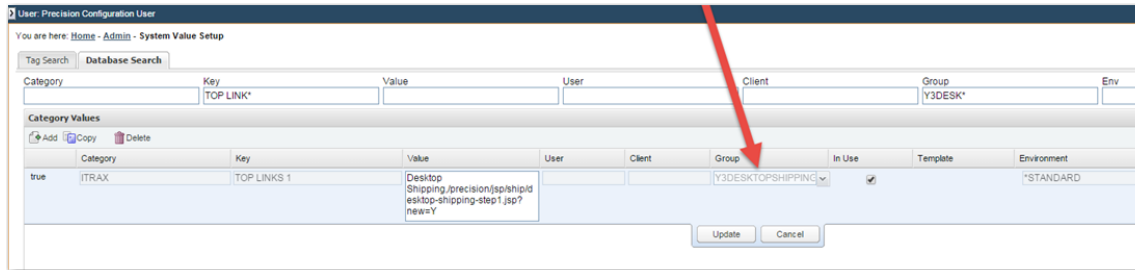


Fig. 29
System Value Group in Read-Only Format



The system value hierarchy logic is now as follows:

- 1 Session client and session user
- 2 Session user
- 3 Group and session client
- 4 Session client
- 5 Group
- 6 Global (that is, where the group, session user, and session client values are all blank)

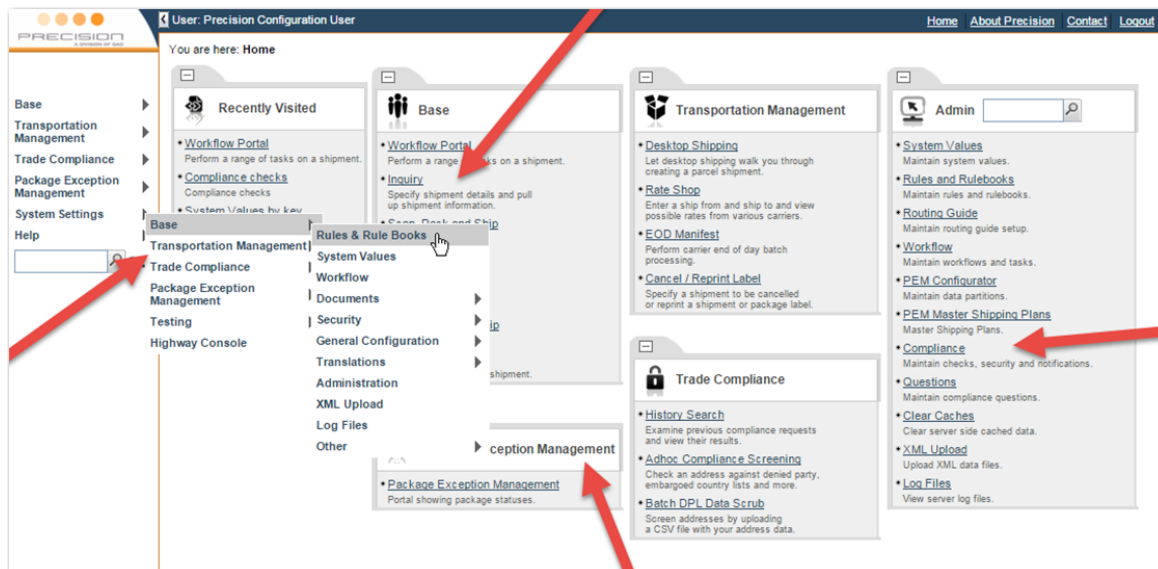
An issue, where the System Value Maintenance page (Y3) was unable to maintain data in JSON format, was fixed. This issue affected system values used by the Scan Pack Ship page.

Home Menu

The links on the main page (HOME), as well as the left hand side menu, have changed.

- The Inquiry link now points to the new REPORT option.
- Compliance (CK) has been added to the Admin section of the Home page.
- The Transportation Tracking menu item has been changed to Package Exception Management.
- The System Settings sub menu now includes new Base, TMS, Trade Compliance, and PEM admin options.
- The order of the Trade Compliance links and menu items has changed.

Fig. 30
Updated Menu Order



Authentication

JAAS authentication has been enhanced to work with the target URL parameter.

Charge Entry

A new Shipment Charges page (QSHSO) allows you to quickly enter basic charge information against a shipment.

Fig. 31
Shipment Charges Page

The screenshot displays the 'Shipment Charges' page. At the top, there is a search panel with 'Client: TGL' and 'Shipment Reference: PEMFDX-302'. Below this is a table titled 'Shipment charges' with the following data:

Code	Description	Buying charge	Currency	Code	Description	Selling charge	Currency
QFRT	Freight Charge	74.3	USD				
QFUELS	Fuel	8.92	USD				
400	Late payment interest	0	USD				
300	Export taxes	0	USD				

Below the table, there are input fields for adding new charges. The 'Buying charge' section includes fields for Code (QFUELS), Description (Fuel), Cost (8.92), and Currency (USD), with a checked 'Prt on invoice' option. The 'Selling charge' section includes fields for Code, Description, and Cost, with an unchecked 'Prt on invoice' option. A 'Save' button is located to the right of the selling charge fields.

You can:

- Define expected charges so that the page automatically lists these changes in the charges grid.
- Pair charges together as buying and selling charges.
- Enter extended charge information by selecting the Addition Details link, which opens a popup window with additional fields.
- Run the page as a workflow task using the option WFTSSO.

PEM

PEM Config Page

The PEM Configuration page (PEMCFG) has been enhanced to allow one prompt on the Packing Location field.

Web UI 5.0 Patches

The fixes listed in this section were made since Web UI 5.0 was released and are included in Web UI 5.0 as a patch and in Web UI 5.1.

Desktop Shipping

Compliance Step

An issue was fixed that involved shipments failing the DPL compliance check after an address was white listed.

Desktop Shipping Step 1

- The application now clears the Inter Office Details details if the ship to partner is flagged as new.
- If you select the Product/Commodities option, the Description field is now hidden.

References Step

- You can no longer enter dispatch or promise dates that are in the past.
- The validation that required you to set the Promise Date field was removed.

Desktop Shipping

An issue where customer rates were displayed instead of company rates has been fixed.

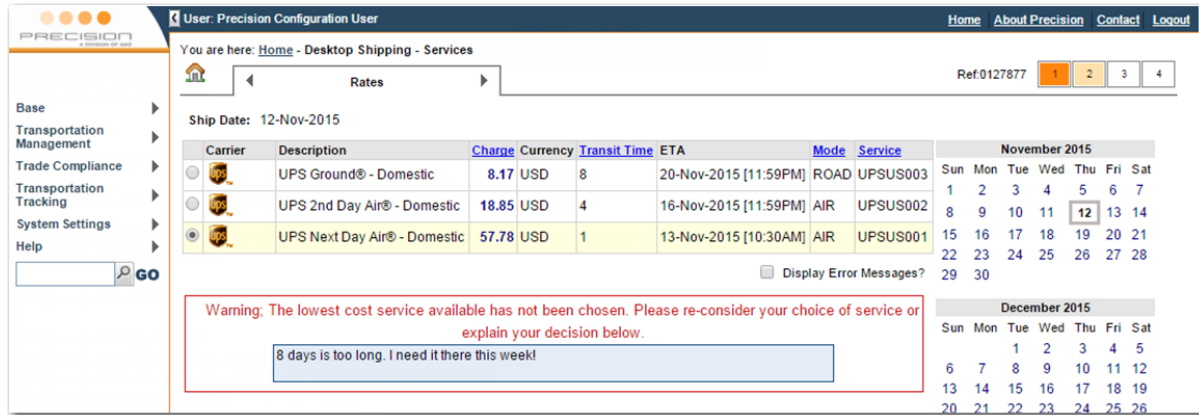
Address Validation

An issue was fixed in which the Accept and Save buttons did not appear on the Address Validation popup window.

Rate Shop Step

- Invalid rates are now excluded when determining if the lowest rate has been selected.
- An issue was fixed in which the expected delivery date could not be used for the subset of services shown.
- An issue, where not all FedEx rate shop services were displayed, was fixed.
- As shown in Figure 32, you can now specify a rationale for not selecting the lowest-cost service available.

Fig. 32
Desktop Shipping



ZBTX DTSR Desktop Reason Text

Accessorials Step

You can now hide non-service-specific accessorials.

Product Step

- When a product lookup is performed, the application now pulls in the product Net Weight, Volume, and Volume UOM.
- When a product code is entered, the associated product information now populates the item fields.
- An issue, where the entered product information became corrupt when multiple products were specified, was fixed.

Method/References Step

An issue, where the specific service did not default from the template wizard value, was fixed.

Confirmation Step

Document generation has been enhanced and you can now merge PDF labels produced by external integrations with documents created by PRECISION.

Desktop, Miscellaneous

- A possible null pointer exception when working with mailing lists was fixed.
- Issues with ship to information for recalled shipments were corrected.
- Unexpected alert popups are now prevented from appearing when you use IE8.
- You can now configure the Custom Value field, as required, using the system value DTS PR CUSTOMS VALUE REQUIRED.
- If the address verification plug-in is not configured for a given ship-to country, the application does not verify addresses, instead of performing the verification and generating an error.
- Issues were fixed where:
 - The ability to retrieve the last shipment from details used did not work as expected.
 - Some fields listed in the Wizard configuration could not be hidden.
- If you are shipping documents and the DTS DEFAULT DOCUMENT SIZE setting is set to DIMENSIONS, the application auto-selects the Specify Size Using setting as Entered Dimensions.
- The DTS SHIPTO VERIFY ALLOWED system value is no longer case sensitive.
- The spelling of “Products/Commodities” on steps 1 and 2 of Desktop Shipping was fixed.
- The product information is now reset when the Package Contains value is changed.

Workflow, Consolidations

- The Reset button now clears the Carrier Search field.
- Sporadic issues, where the page did not always show the orders added to the consolidation, were fixed.
- Some of the search fields were moved.
- The consolidation logic that updates a shipment when it is added to or removed from a consolidation was corrected. Previously, the consolidation was not updated and a “closed shipments cannot be added” message was displayed.
- The application now reopens or closes shipments if they are added to or removed from consolidations.
- An issue with the display of the consolidation reference number for shipments added to consolidations was resolved.
- When you remove a shipment from a consolidation, all the shipment header packs for that shipment are now removed.
- The application now ensures that the original shipment packing is preserved after the shipment is deleted from a consolidation.
- The application now copies the Deliver To (18) information from the shipment to the consolidation.
- A duplicate pack number issue, encountered when working with extended packs, was fixed.
- The logic now takes account of extended packing.
- A lookup for Consignee/Consignor search fields was fixed.

- The default value for the CONSOL:PACK PRORATE METHOD system value was changed to None, which needs to be explicitly specified before you prorate pack information from a consolidation to a child shipment.
- An intermittent issue, where consolidation updates did not always display correctly, was fixed.
- The error message that is displayed when a consolidation contains packs was updated to: “The shipment cannot be deleted as it has packed items. Please unpack the shipment first.”
- The item XBL Order Line Number, item XBL Order Number, item Order Quantity, and item Country of Origin are now copied to new consolidations.

Compliance

Engine

- An issue, where the KEY check crashes when keywords are passed manually, was fixed.
- The DPL Check % match Fail/Warning message was updated to be consistent.
- Exception checking was added to the compliance logic to correct an issue that occurred when there were no results to save.

History Search

- An issue with the record count, which occurred when the Only Show Last Run flag was checked, has been fixed.
- Database queries were changed to improve performance in listing matching compliance runs.
- A possible timezone usability issue was fixed. The issue occurred if you entered the Tested Date From/To in local time (Web form) but the search used UTC.

Results

- New lock functionality was added to the Compliance History screen. Lock details are set in the compliance header PSL01/PSL02 fields. The logic is activated when the system value COMPLIANCE /LOCK WEBUI COMPLIANCE HISTORY is set to Yes.
- The History menu now shows the local client time rather than the database UTC time.

SOAP Request

An issue, where the return endpoint was not stored in the database, was fixed.

ECLI Check

The license purchaser must now match the shipment customer rather than the consignee.

Compliance, Miscellaneous

- An issue, where the commodities questionnaires showed incorrect header information, was fixed.
- An issue, where the maximum value for a single use license was not taken into account, was fixed.
- Alternate party logic that caused the matches for the same address to disappear was corrected.
- A Unicode issue with the batch data scrub functionality was fixed.

Weighing Scales Applet, USB Device

- An issue with the default UoM flag mapping values was fixed.

- The Applet Formula system parameter was enhanced and can now contain the UoM flag indicators received from the scale. For example: `a+b*256;a=5;b=6|pounds_indicator=11;grams_indicator=2.`

Rule Maintenance

- You can now update a rule and set its end date to be blank.
- After you add rule documents using the Multi-create button, the documents are displayed correctly on the Document sub-option.
- When you copy a rulebook, the application now correctly copies the associated rule information onto the new rulebook.

PEM

- Issues were fixed with:
 - The Both status in PEM.
 - The export functionality in PEM.
 - The capture of Ship From information from an EDI feed.
 - The explicit search, which occurred when the ETA or dispatch date were specified.
 - Inbound and outbound shipments with the same tracking number. If more than one shipment has the same tracking number, the shipment with the internal carrier has lower precedence.
 - Reference numbers from an EDI feed not displaying correctly on the PEM screen.
 - Transaction type values used in certain ProcessShipment XMLs generated by PEM.
 - The status scan process, which sometimes stopped working.
 - A light shipment mapping issue with the Consignee State field.
- The application now includes additional mappings for the Customer References to the PEM UPS integration.
- The ETA date is no longer displayed as the last system update date if no ETA date is available.
- The application now avoids a possible null pointer error when notifying a party whose e-mail details are blank. Improvements were made to error handling, logging, and memory usage.
- Certain logged errors have been reclassified as warnings.

Book a Messenger

An issue that occurred when the cost contained a decimal point was fixed.

Update UPS Turkey JAR Files

A number format exception was corrected.

DHL Integration

The buyerReference field is now mapped to ShipmentReference1.

Inquiry, NQ

- An issue, where the results did not match the dispatch date criteria after moving from the first page, was fixed.
- The dispatch date on old draft shipments is reset to today's date if a shipment is recalled.

Rate Shop

Dummy address lines 2 and 3 were removed from rate shop requests.

Workflow, Maintenance

- The validation applied to the creation of new workflows has changed.
- The Workflow type field is now editable.
- Correct sort by task sequence functionality is now available in the Workflow Tasks grid.
- The notification popup no longer shows an alert icon when the message is informational.

Workflow, Portal

Issues were fixed where:

- The compliance status search criteria was not used in the query.
- The Copy to Clipboard button did not work for certain browsers. The button is now shown as a clipboard image rather a button with text.
- The Task Status column in the task grid was removed inadvertently.
- Problems occurred if you searched for shipments using an order date.
- PEM added the ALL client, which sometimes displayed in the Workflow portal. The ALL client was removed from the workflow client search listing.

Workflow, Create Shipment

- An issue that occurred if the item description contained semicolon (“;”) or ampersand (“&”) characters was fixed.
- You can now save ship to address information to the Partner table for future use.
- The Partner Code fields can now accommodate 20 character codes.
- The Create Shipment screen now contains a Dangerous Goods flag.
- An issue was fixed where the ship to phone number entered on the form was not saved to the database.
- An issue that occurred when creating a shipment from a template with two items defined was fixed.

Workflow, AES Task

- An issue, where you could not enable the Save button for the AES Header form even when the relevant permissions were defined, was fixed.
- The spelling in a warning message shown to users was corrected.
- The Weight UOM was set to be read only rather than disabled. This change rectifies a “Failed to find unit of measure for conversion.” error.
- An IE9 issue, where some fields on the Vessels panel did not always render correctly, was fixed.

Workflow, Document Task

- An issue, where the document table rendered incorrectly if there were document image records, was corrected.
- An issue, where you could not send multiple attachments in an e-mail, was fixed.

Workflow, Route References Task

The Place of Loading is no longer mandatory.

Workflow, Manifest Task

- Issues were fixed where:
 - The Surcharges, Parties, and Additional tabs could not be accessed if using IE9.
 - Certain carrier error messages were not fully displayed.
 - The Carrier A/C field was populated incorrectly when using PrePaid.
 - The duty payment method shown was incorrect.
 - The tasks suspects address data changed but was not saved and the application warned the user incorrectly.
 - The carrier account number was displayed incorrectly.
 - The freight class information displayed incorrectly.
 - The DELIVERY TERMS TO PAY METHODS system value caused problems.
- The Freight Payment Method now defaults to Prepaid when this is a valid option.
- The Neutral Delivery flag is now available for DHLX.
- Default accessorials associated with a service are now set when you select the Surcharges tab.
- The Main tab now contains a Duty Account Country field.
- The COD party role was changed from CP to CD.

Workflow, Standard Packing

Issues were fixed with:

- The quantity set when copying a pack.
- The shortcut keys not working until a window received focus. The initial focus field is now the search field in the Unpacked Items grid.
- The task when there was a large number of packages on the shipment.

Workflow, Shipment Items Task

Fixed an issue where SIGROUP and SIHGROUP data was not shown when columns were added to the shipment item list panel.

Scan, Pack and Ship

A concurrency issue that caused the auto-packing feature to create duplicate packs was rectified.

The minimum height of the bottom panel (Items to be Packed) was increased to correct a display problem.

Selection Lists

- The logout option has been removed from pages opened as a result of clicking the Maintain button from a selection list.
- An issue where duplicate elements were shown was resolved.

Maintenance, XL

An ECLI license creation and ECCN group issue was fixed.

Maintenance, NRDTS

- Issues were fixed:
 - With creating a new partner record. Previously, after validation errors, roles were not reloaded and the Create button changed to Update.
 - With a search problem that occurred when the Enter key was pressed.
 - Where a search followed by paging caused duplicate values to be submitted.
 - Where the Partner Id field was disabled if left blank and the Create button was selected.
- Standard validation and lookup functionality was added to the Consignee Type field that appears in Partner Maintenance and in Address Override forms.
- The maximum length of the Partner Id field was increased to 20 characters.

Maintenance, System Values (Y3)

- An issue was fixed where the Desktop Shipping Wizard Maintenance window did not parse the system value data correctly, resulting in the text “Object” appearing in accessorial fields.
- After a workflow update, the application now remembers the workflow selected and keeps it selected after reloading the grid.

Rule Maintenance

Rule Maintenance, General

- A Note validation issue concerning the maintenance of rule documents was fixed.
- An issue, where a copied rule did not also copy sub-option details, was fixed.
- An issue with the maintenance of the rule book shipment types was fixed.

Master Maintenance, WF

You can search on the Task Description field.

Address Verification

The address verification has been updated to handle cases where the address country code used is a non-ISO two-character code.

Persistence

Additional framework support for customizing the DAO and MetaData resources was added.

General Maintenance

- An issue was fixed where the Activity field (permission option) on a user-defined lookup domain record was not always saved.
- The Save and OK buttons on the Maintenance panel now show on the bottom left, rather than the bottom right.
- EOD:[Carrier] OPTION system value for the EOD Manifest now works at a packing location level.
- An issue with the address validation logic was fixed.
- The logic used to generate Create Shipment XML messages for the Black Box Engine was modified.
- A number of integration issues with the Loqate API were corrected.
- An IE 8 JS issue that occurred when prompting on Partner lookup fields was corrected.

- The digital signature used to sign the print applet was updated.
- HTTPS now works with JBoss 7 and WildFly 8.
- An XSS vulnerability on the Admin Cache clearing page was addressed.
- `HighwayService.sendToHighway()` is now a public method and can be reused elsewhere.
- The customization framework now works with WildFly. A classloader and URL mapping issue was corrected, where the custom resource could not be used over the base resource.
- A general issue was fixed, where the Calendar popup did not always show when prompted.
- The WildFly deployment now records logging messages when invalidating a session that has been already invalidated, rather than raising an error with exceptions.

Highway

The Highway version released with PRECISION v16.1 is 4.1.0. The Highway database schema has not changed in this release.

The PRECISION 16.1 database now includes the Highway tables.

- The Java listener can now be configured to keep its connection to the JMS queue open. By default, every time the listener checks for messages, Highway creates a new connection. In environments where there is a high volume of messages or a large number of listeners configured, this can place a high demand on ephemeral ports.

This functionality is controlled by the new `precision.properties` property:

```
precision.listener.highway.ls1.keepconnectionalive=yes
```

- An XML import issue with payload types, where the extension information was saved in the Format field, was fixed.

The set of `/http/SubmitMessageAuth` URLs are now associated with a security realm of `highway-xml`. WildFly is now correctly configured to use `highway-xml-roles.properties` and `highway-xml-users.properties` to secure access to the `SubmitMessageAuth` URL.

- You can now configure the URL used by the Load Test page in the Web UI. Previously, the server and port were determined from the request made to submit the test. You can set two new properties in the `precision.properties` file:

```
precision.sps.loadtestpage.server=localhost
```

```
precision.sps.loadtestpage.port=8080
```

Previously, the protocol used by the test was fixed as HTTP. The protocol is now set as HTTPS if the port is 8443 or 443.

- The Highway WSDL now takes account of Address Validation and Compliance sections added to the `ProcessShipmentResponse` message.
- All `System.out` statements and `e.printStackTrace()` statements were replaced in the Highway code with `log4j` statements.

JMS Endpoint

- The cluster logic was enhanced to remember the last connection to an active JMS server. New connections are more likely to connect to the active server first.
- The message property `MessageId` is now set to a default value of `_HIGHWAY_MSG_ID` when writing messages to a JMS queue. This fixes an issue with the new JMS DLL Connector that occurred when a message with an empty `MessageId` was sent directly to the queue where the connector read messages.

JMS

- An issue, where Highway was unable to count messages on a clustered queue, was fixed.
- An issue was fixed where the logic that counts messages on a Hornet JMS queue failed to display the number on the Highway Console status page.

Web Services

- Short compliance responses to a compliance Web Service request are now supported.
- An issue with making ProcessComplianceRequest SOAP calls was fixed.
- Web services can now be secured using HTTP Basic Authentication.

WildFly

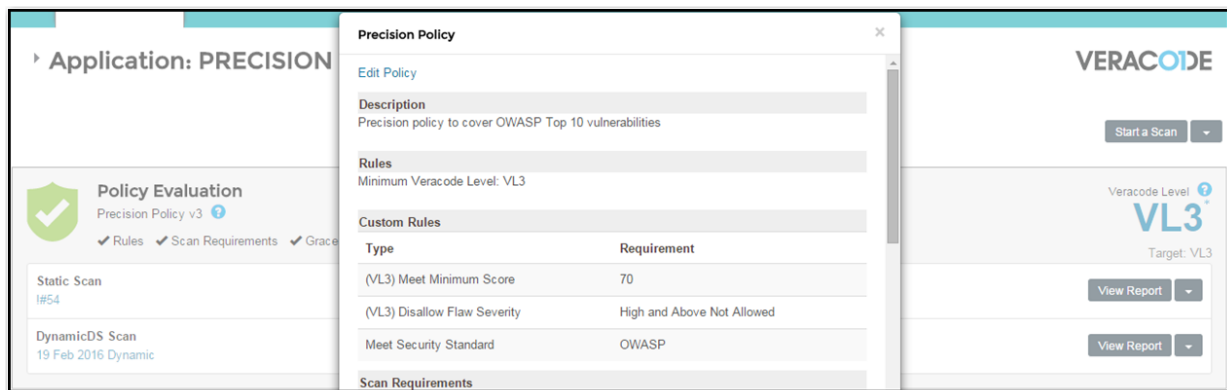
- The WildFly 8.2.1 client jar file is now included with Highway. By default, the file is stored in the folder: C:\Precision\WebUI\highway\connectors\jre\1.7.0_80\lib\ext.
- The <distributable> tag was removed from web.xml, which enables Highway to deploy in WildFly.
- An issue, where queries did not always find endpoint details due to new domain functionality, was fixed.

Technical

Web Security

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

Fig. 33
Veracode



- The password encryptor class is now obfuscated by ProGuard.
The key used to encrypt the data can now be externalized.
- A new precision.properties parameter allows the Web UI to log the user ID in all application output:
`precision.security.log.sessioninfo=yes`
For example:
`2016-03-11 09:42:39,297 ERROR`
`[com.precisionsoftware.trax.app.controller.workflow.base.WorkflowBaseContro`

```
l1er:172] (default task-41) [User: QCONFIG] Transaction client could not be set ; Client code = null
```

- Inquiry (NQ) queries are now executed as prepared statements, removing the risk of SQL injection vulnerabilities.

Caches

It is now possible to configure the Web UI to ensure that, if caches are cleared using the ADMIN page of a Web UI instance, this action is broadcast to other Web UI instances. This feature is useful where there are multiple Web UI instances running on different application servers, all fronted by a load balancer and connected to the same PRECISION database.

An issue with the Clear All Caches link on the ADMIN page was resolved. Clear All Caches now also includes the Clear Cached Maintenance Information action.

Ext JS Framework

- The Ext JS versions have been updated to 3.4.3 and 5.1.2.
- A new `sencha-extjs-5.1.2.war` file is deployed that contains the Ext JS 5.1.2 JavaScript resources. This file introduces a new `/precision-extjs` context that may require you to review your fronting Apache or load balancer configuration.

Persistence Data Chunking

- It is now possible to configure the default chunking size using a new `precision.properties` parameter:
`precision.persistence.defaultchunksize=500`
- The unique key used by persistence to page through the `InterfaceControlShipmentHeader` records (XMINHD0 table) was corrected.

Install

The application server installed by default is now WildFly 8.2.1.

Java JRE 1.7.0_80 is now the Java version used by WildFly, Highway DB, and the Progress 4GL listeners to connect to the JMS queues.

The WildFly version was updated to include:

- Undertow 1.2.9
- Logmanger 1.1.2

The MS SQL Highway SQL was modified to fix an issue where the domain was not included in some create index statements.

WildFly is now configured correctly to auto deploy exploded WAR files such as skins and translation resources.

PRECISION TMS/QAD Freight Management S40

Introduction

These release notes include information about the latest PRECISION TMS/QAD Freight Management fixes and changes. These changes may affect the way you use PRECISION TMS/QAD Freight Management.

Application Enhancements

Black Box—Message Changes

- ShipShipment/CreateShipment
- ReprintShipment
- ProcessSPSResponse
- ProcessShipment

End of Day Process

No changes in this service pack.

Hazardous Materials

No changes in this service pack.

LTL—Check Digits Added

The check digit algorithm for the CBNK carrier (Cabano Kingsway) has been revised.

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

LTL—Generic Label and Manifest

The system now spreads special instructions across two lines on a label if the text is longer than 120 characters.

LTL: Processing

The system now generates the Allow for EDI 211 file as part of EOD process, if configured. The first LTL carrier to leverage this functionality is ABF Freight.

All error messages now include unique error codes.

Rate and Transit Time Maintenance

No changes in this service pack.

Rating—Legacy Engine (TH Structure)

No changes in this service pack.

Routing Guide

The Routing Guide:

- No longer writes to a close stream.
- Includes non-transit days when calculating the ship date, if the ship date is the current (today's) date.
- Saves the routing criteria used at the time of shopping.

For more information on the Routing Guide, see *QAD TMS/Precision Base Web UI Administration Guide*.

Technical Enhancements

None.

General Enhancements

- You can now print a lithium battery label.
- The application now includes an SPSHLP option to help you to find programs, service pack versions, and so on.
- The system no longer defaults the shipper contact as the shipping officer for return shipments.

Carrier-Specific Enhancements

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

Australia Post

Australia Post is a new carrier. For details, see the Functionality Guide for the carrier.

Blue Dart

Blue Dart is a new carrier. For details, see the Functionality Guide for the carrier.

Bring

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

Canpar

After a successful FTP transmission, the application now FTPs the file to the carrier back-end first, and then renames it to the appropriate file name and moves it to the appropriate directory. This enhancement prevents files from being partially processed during transmission.

Chronopost

The system now treats Monaco (MC) as a France Domestic destination.

Ciblex

The system now corrects the shipper address printed on the label, when a return-to address is specified.

DHL–Express (SAS Version, US Origin)

- The label layouts were changed slightly to accommodate additional space for larger fonts for some fields, and to output multiple lithium battery type descriptions, when applicable.
- Corrections were made to:
 - The communication of data using Web services and to the processing and reprocessing of paperless-applicable shipments.
 - The process that determines British (GB) routings using significant characters of the postcode to look up DHL routing data.
 - The process that determines the DHL Payment Terms value in the EOD file, depending on the freight payment method and duty payment method combinations selected.
- The system now determines the port of entry using a Web service call to the DHL back-end.
- Dimensional weight factor changes driven by DHL data were added.
- You can now:
 - Recycle tracking numbers from prescribed minimum and maximum values.
 - Specify email addresses of up to 80 characters.

DHL–Day Definite (Non-US)

The integration now supports:

- The Spain (ES) origin
- The DHL For You (DFY) service

DHL–Packet Services

The integration now supports the:

- COD freight payment method
- Sperrgut service

Error handling is now more thorough for the Bucho routing integration.

DHL–Global Mail (US Origin)

- The integration no longer splits the item line across multiple packages in the EOD file.
- Post codes are now optional for some countries (for example, Zimbabwe).

DHL–Time Definite (Non-US)

- Routing:
 - The application now integrates with the DHL GLS application to retrieve routing information using a Web service.
 - Corrections were made to the process that determines the GB routing using significant characters of the post code in lookups to DHL routing data.
- The integration now supports the DOK and DOT (domestic early morning) services, and the WMX and CMX (Medical) services.

DHLQ–XML PI Integration

- Corrections were made to the text values output for labels for lithium battery applicable packages.
- The application now accepts longer names for the shipper and recipient.

XML Mapping

- You now have the option to deactivate the Allow ExportDeclaration section in the XML.
- You can now map a dummy contact name, if required.
- The Quantity field is now mapped as numeric instead of alphanumeric.
- You can now configure the printer resolution, when the DHL back-end generates a label. In addition, you can now generate a configurable number of archive labels.
- You can now process:
 - Returns with a configurable staging time period
 - The Neutral Delivery Service (NDS)
- Corrections were made to:
 - The process that determines the Dutiable flag and the conditions that cause it to be True or False when shipping into, out of, or within the EU.
 - The mapping of package dimensions.
- The mapping no longer:
 - Treats the Canary Islands as part of the EU
 - Maps the Duty and Account fields for non-dutiable shipments
- Monaco (MC) is now handled as part of France (FR).
- The mapping now uses ISO country code plus the city name to determine DHL country codes for exception country codes that are specific to DHL.

Integration

- A redundant call to the time-in-transit message was removed, and performance was improved.
- The process for handling errors parsed in responses from the DHL XML PI back-end was corrected.
- The integration now separates costs and taxes from the values returned from DHL, when available.
- You can now set the default ReadyTime to earlier in the day to allow all possible services to be returned from the DHL back-end during a rate or transit-time request.

DPD

- Labels:
 - The post code value output for Ireland destinations was corrected.
 - The determination criteria for the shipping path and grouping priority values (routing information) printed on labels was corrected.
- The formatting of weight values in the EOD file, where DPD's interpretation of the number was in units of 10g, was corrected.
- All error messages now include unique error codes.

DPD UK (Formerly Parceline)

This integration now supports Interlink services. For details, see the Functionality Guide for the carrier.

Endicia

- The DeliveryTimeDays parameter was added to the XML mapping to retrieve more accurate transit times, when available.
- A new Flat Rate service was added. For details, see the Functionality Guide for the carrier.

Integration

You can now use:

- Different accounts and passphrases to access the Sandbox.
- A Dial-a-zip integration call, to check for residential or commercial settings.

From this release, any accessorials that do not return a charge are no longer stored as a question mark (“?”).

FedEx

FSMS

- On labels, the system now outputs:
 - The dry ice weight for packages that are dry-ice applicable
 - The appropriate dry ice weight unit of measure
 - The shipper emergency number, when applicable, if no more than five lines of the shipper address are used
- Corrections have been made to the mapping of ETD information, which allow you to defer sending files to FSMS until after shipping.
- The system no longer passes a ship date to the FedEx server for returns.
- You cannot map lithium battery information for certain lithium battery types.
- The number of rating currencies supported for different origin countries has been extended.
- The system now:
 - Correctly maps dry ice weights using the appropriate UOM conversion
 - Maps Priority Alert Plus as an accessorial
 - Includes IPD services in a rate shop process. An IPD service is treated as an IP service during the rating process.
 - Supports India origin requirements for mappings and label printing.
 - Allows the mapping of the COD remit address to be different to that of the shipper address
 - Processes ground shipments on a package-by-package basis for multi-piece hazardous materials shipments, to avoid errors on the FedEx server
 - Defers the printing of COD labels until the rating process is complete, to ensure that all applicable charges are included on the labels
 - Ensures that PRECISION-generated ground transit times take precedence over those calculated by the FedEx server, when required

Web Services

- This integration now maps the Residential flag for the Home Delivery service.
- Corrections were made to the process by which the system handles the rate currency and to allow multiple rate types to be specified. Additional corrections were made to the processing of rates and to the storage of rates on return from the FedEx back-end.

FedEx DTW (China Domestic)

FedEx DTW (China domestic) is a new carrier. For details, see the Functionality Guide for the carrier.

GLS

All error messages now include unique error codes.

Hermes–HES Division (Germany Origin)

Hermes–HES Division (Germany origin) is a new carrier. For details, see the Functionality Guide for the carrier.

Itella/Posti

- Labels for this carrier have been rebranded to the new carrier name, Posti.
- The system now supports the Delivery to Special Location service.

Kiala

All error messages now include unique error codes.

Kintetsu Worldwide Express

All error messages now include unique error codes.

Loomis (Formerly DHL Canada Integration)

All error messages now include unique error codes.

Nippon Express (Japan)

The system now correctly determines routings for post codes that contain spaces or invalid characters.

OnTrac

All error messages now include unique error codes.

PostNL (Mijnpost)

The POST NL integration now supports additional International Mail services. For details, see the Functionality Guide for the carrier.

PostNord

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

Purolator (Legacy–US Origin)

This integration is retired.

Purolator (New World–V9)

- You can now use induction addresses for Canada origin shippers on labels.
- The application now prints the correct Service Live Date value for labels.
- The system now defaults the residential delivery address, when required, for a shipping location.

Puropost

All error messages now include unique error codes.

Royal Mail

All error messages now include unique error codes.

Seur

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

SF Express

- The label layout has been revised for some origins within China.
- The integration now handles different back-end locations, in response to changes made by SF Express.

TNT–Express Label and Unicom

- Previously, the sort depot information for labels was not picked up correctly from the ExpressLabel response. This issue has been rectified.
- The application now removes the account ID from the delivery address in the EOD file.
- The integration now supports:
 - Same Day service processing for the GB origin
 - S87 and S88 services for Asia origins
- All error messages now include unique error codes.

TNT–Express Manager Version

The TNT–Express Manager Version is no longer supported for new account implementations.

TNT–iConnections Version

This carrier is no longer supported.

TNT Express–France Domestic (Formerly Called Jet Services)

- The system now:
 - Uses a different macro when LMF (routing request) returns no information
 - Only outputs the first two digits of the destination post code on the label
- The barcode size for Connote has been extended.
- For the detailed manifest, the weight values output and the barcode size have been corrected.
- For the summary manifest, the system outputs a more consistent service description value.

- The system now treats Monaco (MC) as a valid France Domestic destination.
- All error messages now include unique error codes.

Toll Priority

All error messages now include unique error codes.

Trans-o-flex

All error messages now include unique error codes.

Transmission

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

UPS

- The UPS integration is certified for compatibility with 2016 requirements. For details, see the Carrier Functionality Guide.
- Changed the formatting of weight and package count values on labels for consolidation purposes.
- The system now ensures that tracking numbers print correctly on PDF-417 barcodes on labels for multi-piece shipments.
- The system now supports the:
 - UPS Mail Innovations Returns service
 - Argentina origin
- You can now use:
 - Collect as a freight payment method for returns.
 - Consolidation within a Worldease child shipment.

UPS-SCS (Formerly Menlo Forwarding and Emery Forwarding)

The system has been revised for compatibility with the current Gemini Web Services, instead of the Gemini Server integration.

USPS

MAC Certification is retired and no longer supported. Use the Endicia integration instead.

Windows UI Changes

Precision v16.1 contains Windows UI fixes and an enhancement to Base.

Base System Value Enhancement

As in the Web UI, you can now configure groups of responsibility type SYSTEM_VALUE_GROUP and add users to these groups using the option GU. You can then define system values at a group level. The value applies to users belonging to the group, provided that the same value is not defined at user or user client level.

Fig. 34
System Value Group

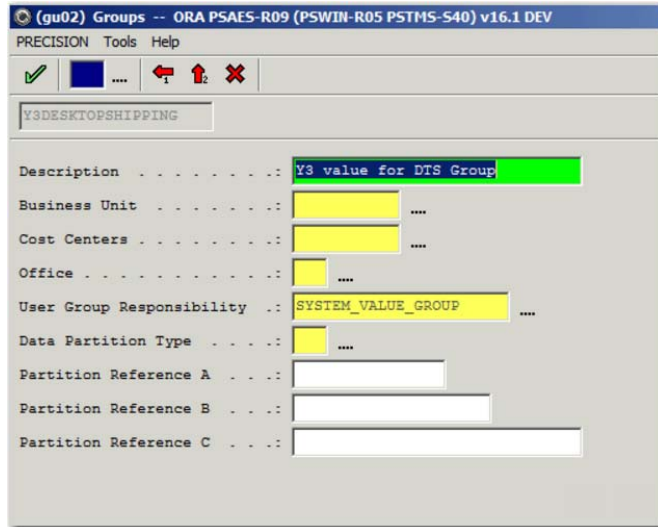
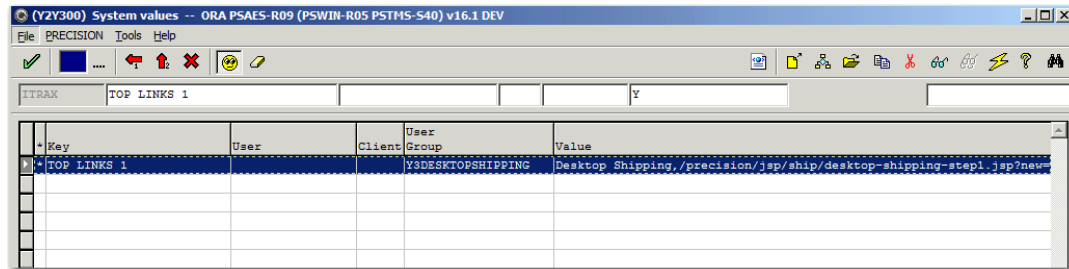


Fig. 35
System Value Group in Read-Only Format



The system value hierarchy logic is now as follows:

- 1 Session client and session user
- 2 Session user
- 3 Group and session client
- 4 Session client
- 5 Group
- 6 Global (that is, where the group, session user, and session client values are all blank)

Base Fixes

- It is no longer possible to delete a rule when it is associated with a rulebook; you must remove the rule from the rulebook first.
- When maintaining a rule, the system now validates that the end date is on or after the start date.
- When maintaining a rulebook, the system now validates that the end date is on or after the start date.

Technical Information

Application Server

Progress OpenEdge ABL

The supported version of OpenEdge is 11.4.

Java

The default Java application server is WildFly 8.2.1.

Operating System

The supported operating system is Microsoft Windows Server 2012 R2.

Database Platforms

The supported database platforms are:

- Oracle 12c
- OpenEdge 11.4
- Microsoft SQL Server 2012
- Microsoft SQL Server 2014 running in 2012 compatibility mode