

PRECISION Web UI Release Notes

March 2016

These release notes include information about the latest PRECISION Web UI 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.

Overview 2

Web UI 5.1 3

Web UI 5.0 34

Overview

Current PRECISION/QAD TMS Version: 16.1

Current PRECISION Web UI Version: 5.1

Release Date: March 2016

Related Documentation

User and administration guides for this release will be available later. Existing user and administration guides are available in the QAD Document Library:

<http://www.qad.com/documentlibrary>

Web UI 5.1

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

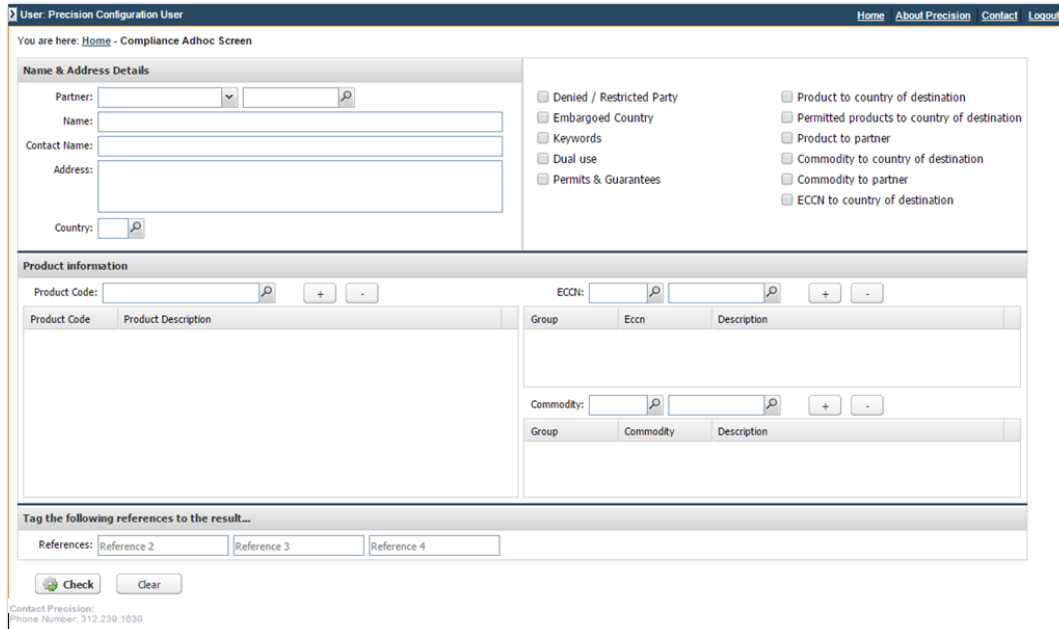
Note For detailed information on these new features, see *PRECISION Web UI 5.1 – Net Change Guide*, which is included with the PRECISION v16.1 release.

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 1 displays the checks that you can perform.

Table 1
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.

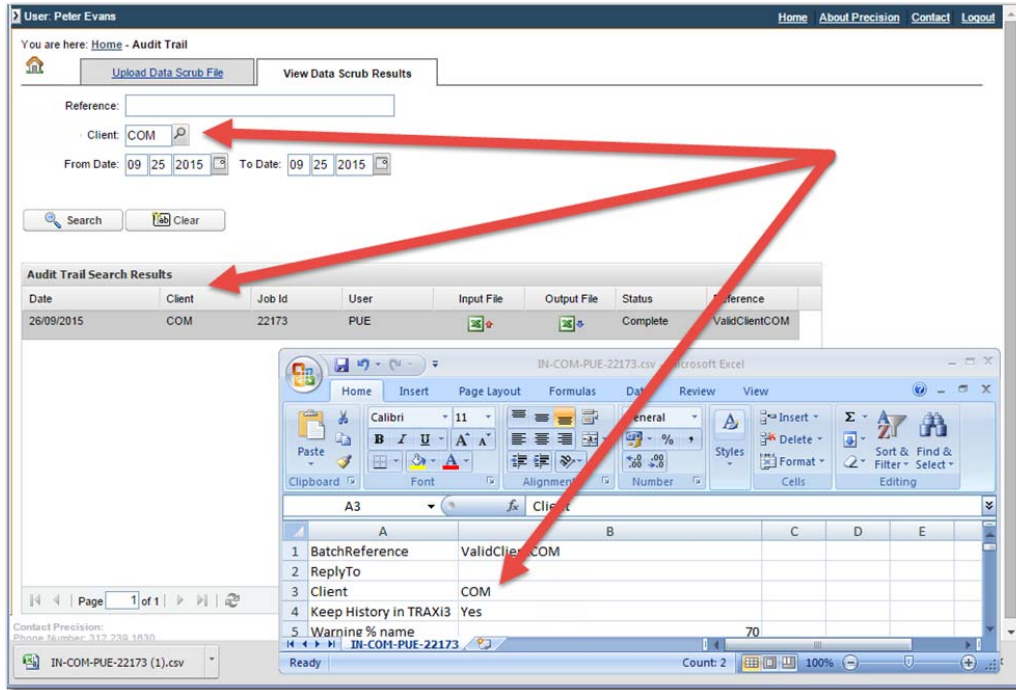
Table 2
Compliance Statuses

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

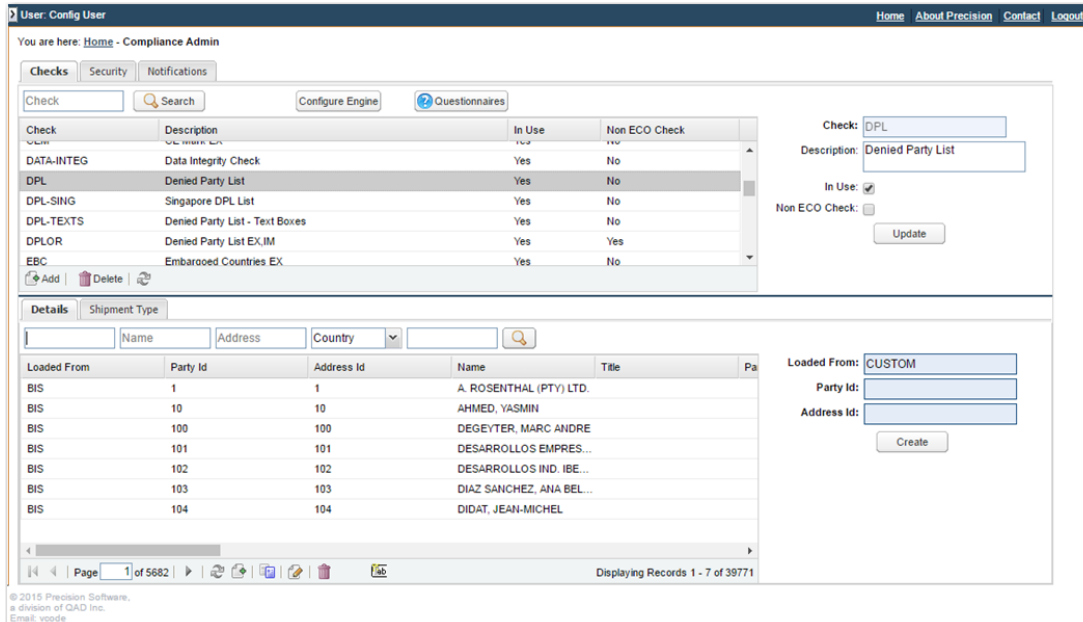
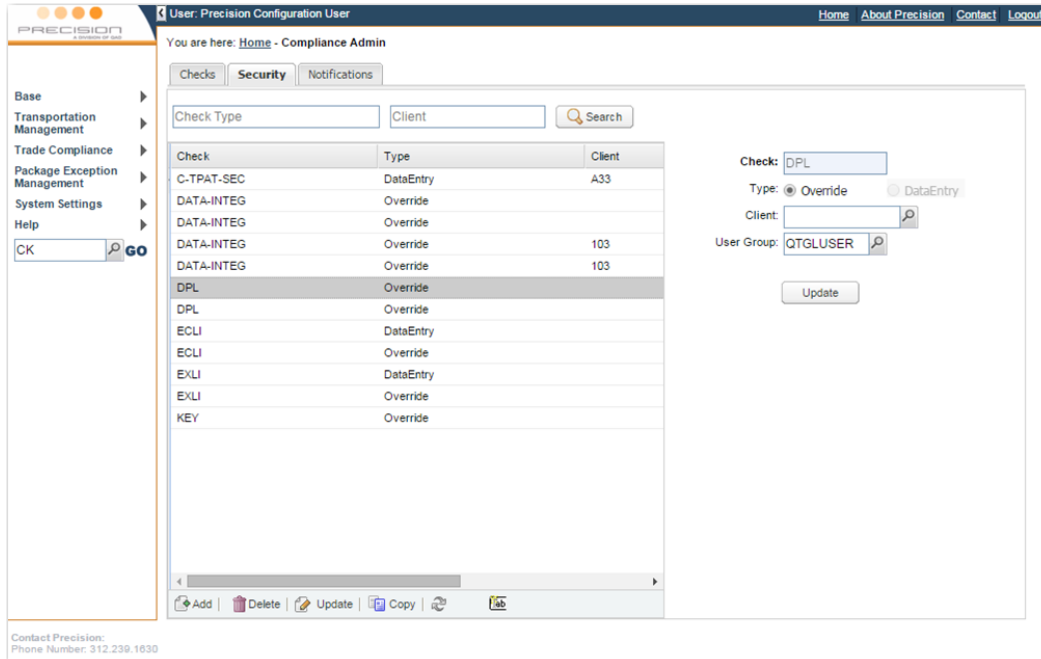


Fig. 4
Compliance Security



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

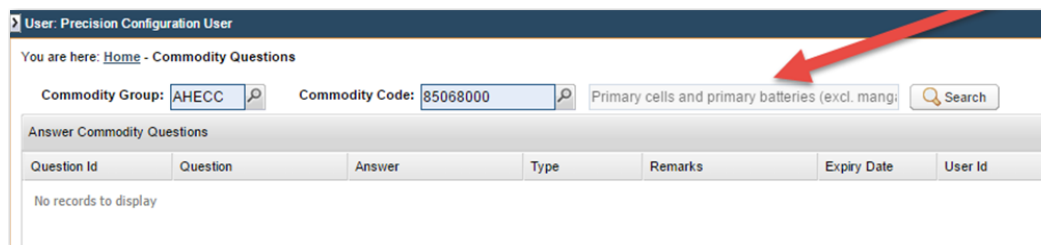
- The System Values page (Y3) to view and maintain compliance engine specific system values.
- The Questionnaires page (QE) to view and maintain questions and questionnaires.

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.

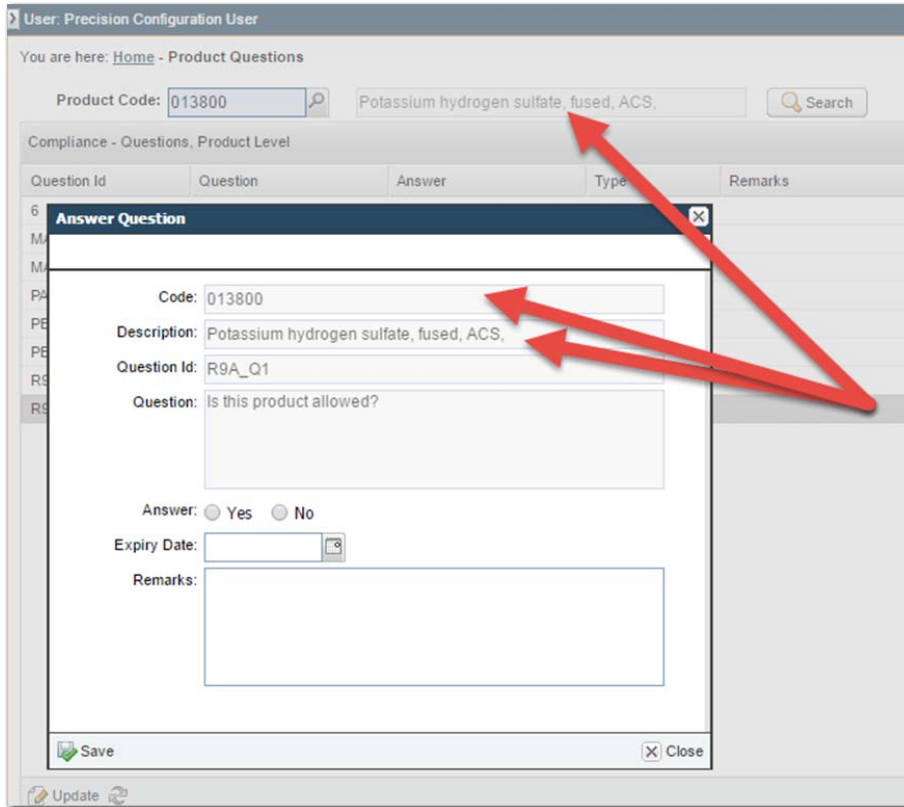
Fig. 5
Configuring a Commodity Question



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.

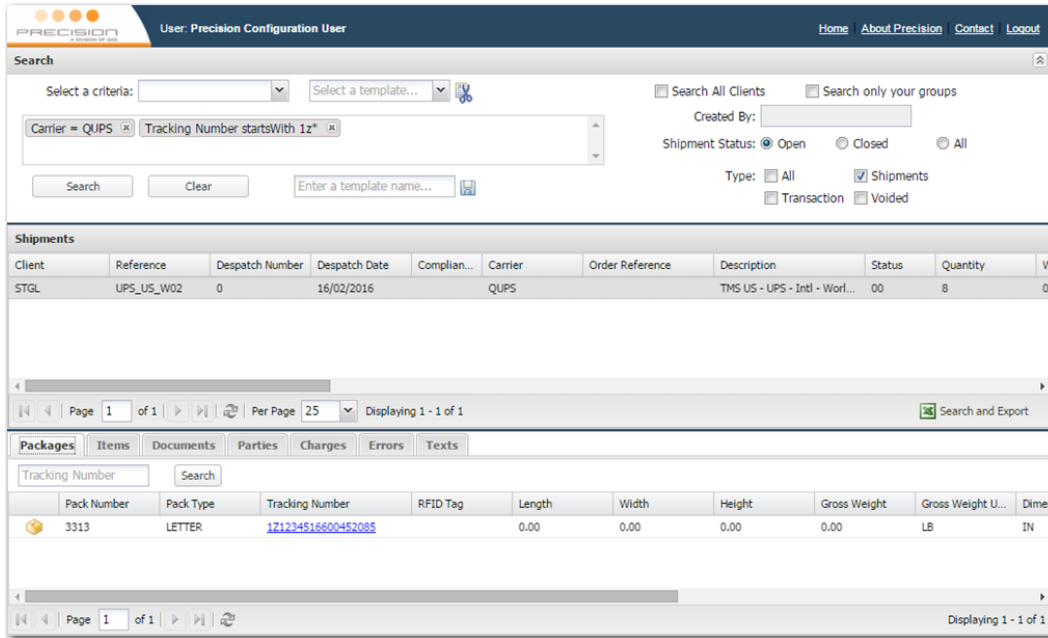
In addition, improvements and corrections were made to the maintenance of questions at specific role levels, as well as for all roles.

Base

Inquiry

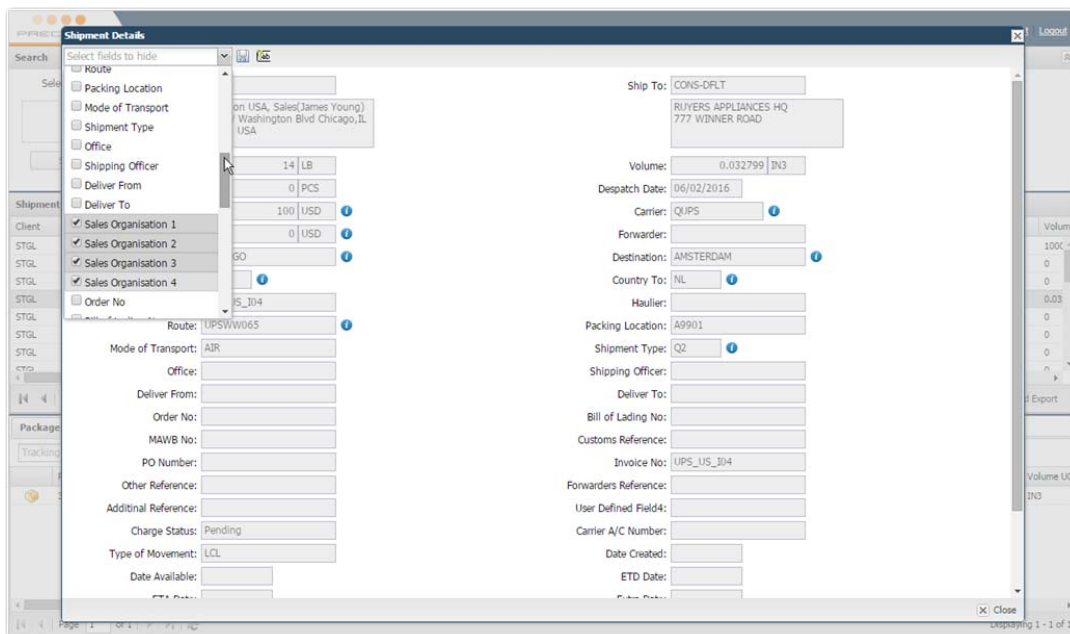
A new inquiry REPORT option is available that allows you to search for transactions in the application.

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.

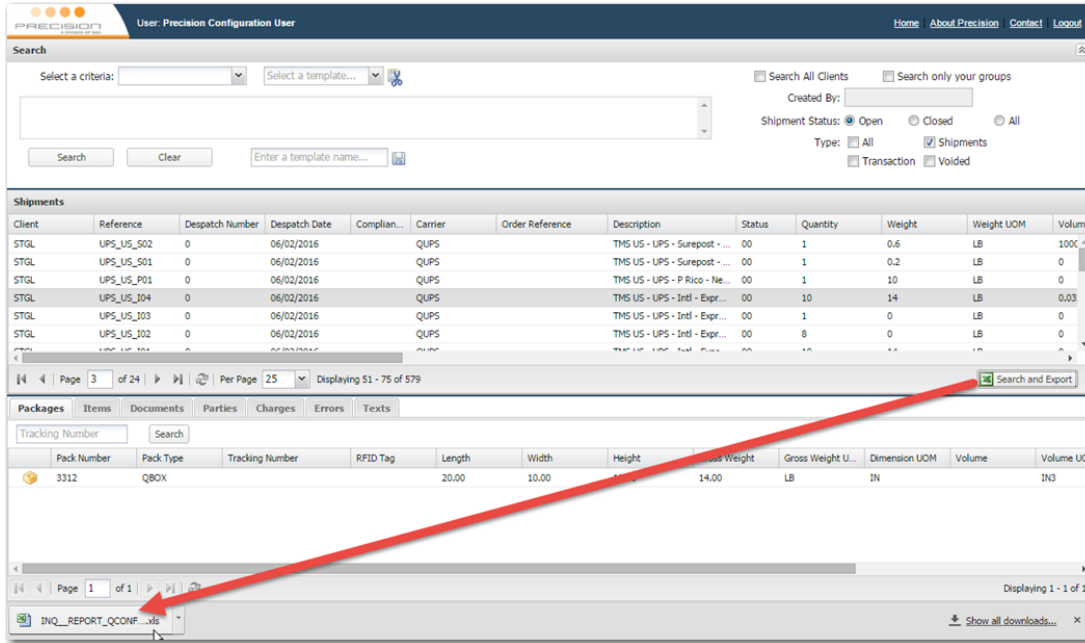
Fig. 8
Shipment Details



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.

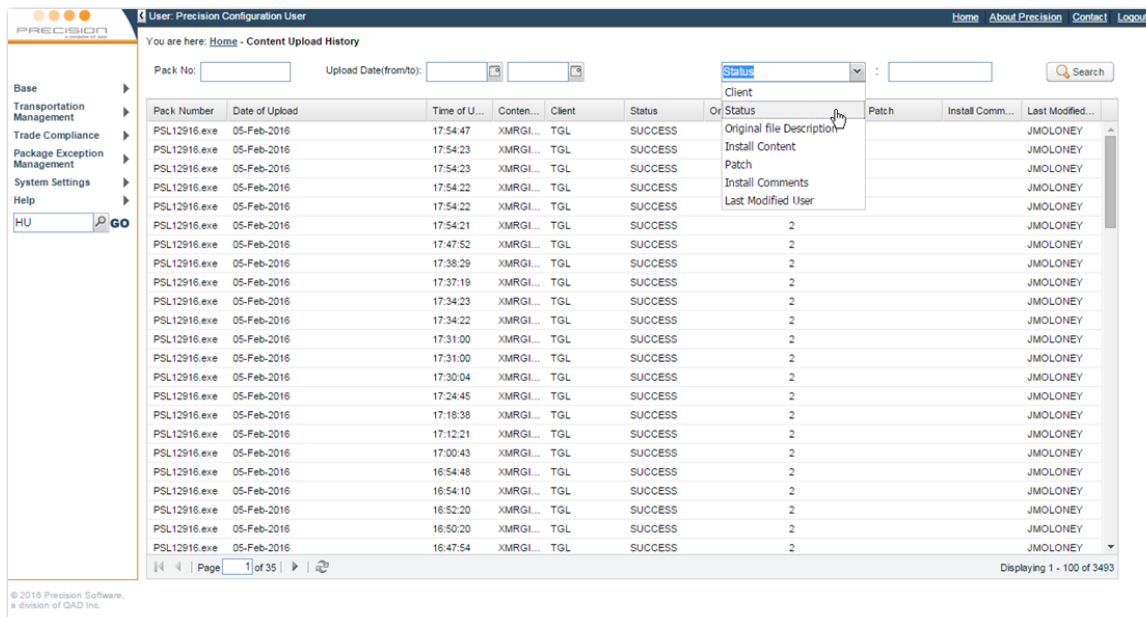
Fig. 9
Shipments Grid, Export to Excel Option



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

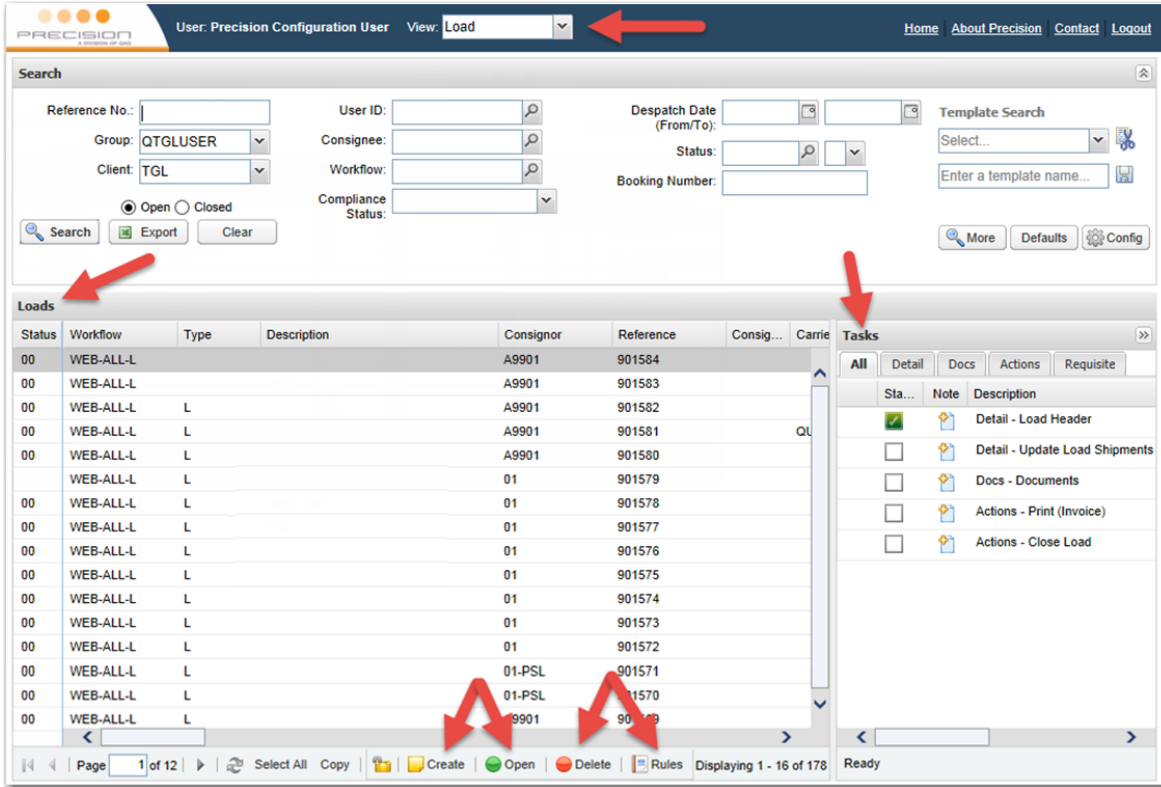
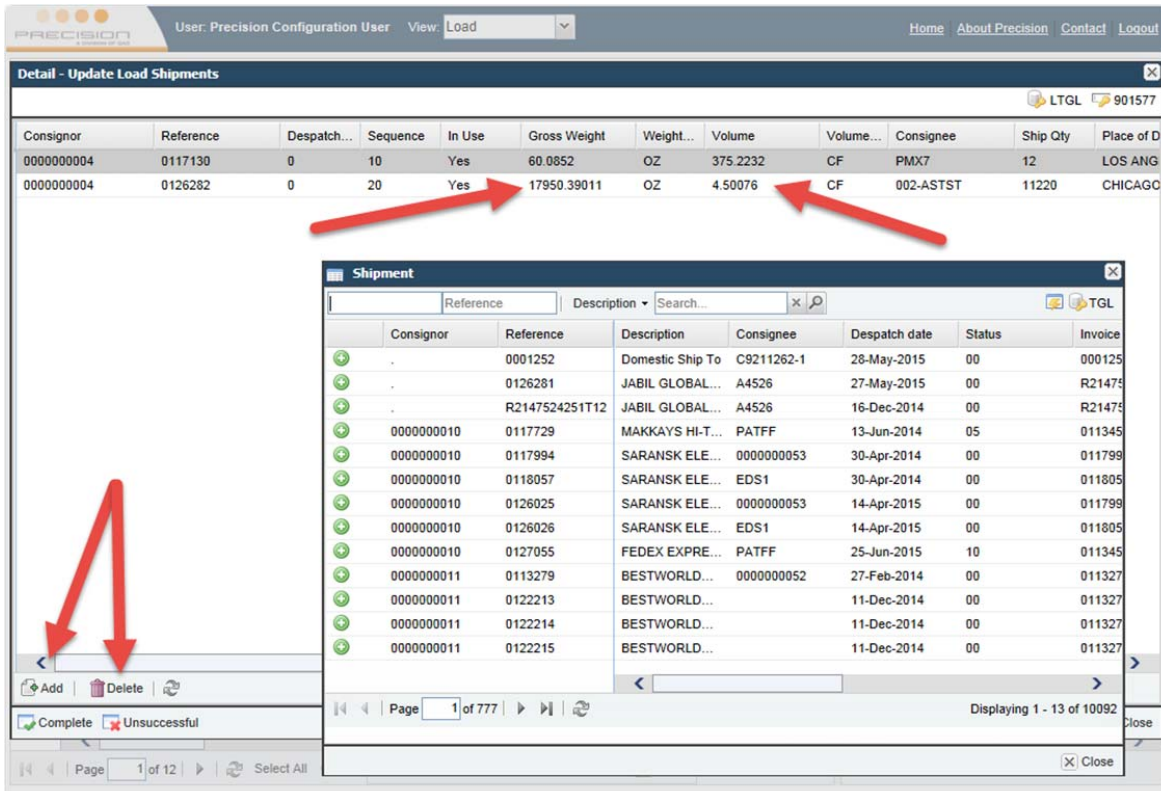


Fig. 12
Update Load Shipments



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.

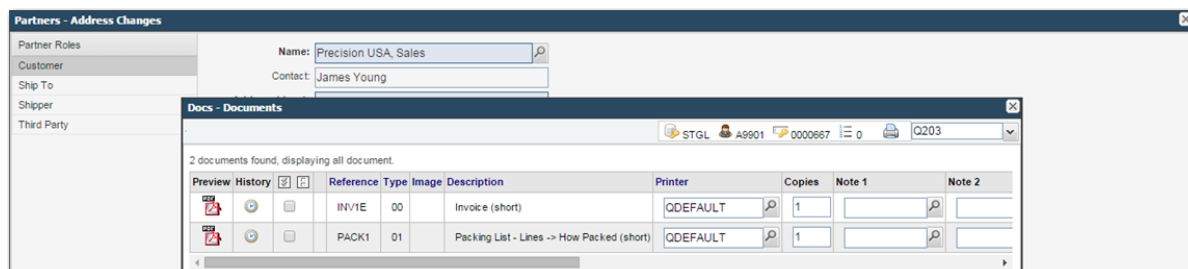
If you change a template value, it is saved as a user-level system value.

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.

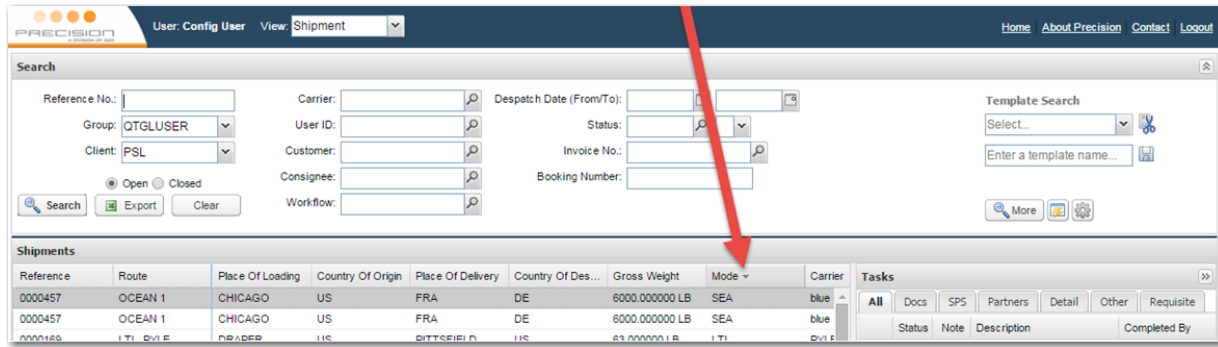
Tasks listed in the Jump menu are configured using the Show on Jump menu flag on the Workflow Task definition record. Tasks marked as Windows UI only tasks are not included.

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

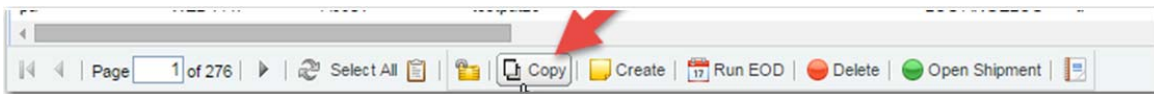


The functionality that runs a check prior to running the selected Workflow task is now more consistent with Windows UI behavior. Now, the following happens:

- 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 to 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

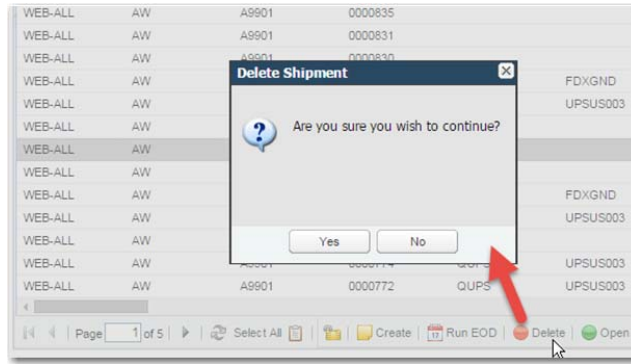


Click the Copy button to open a Copy popup window similar to that of the Create popup, which allows you to view and modify data prior to creating a shipment.

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

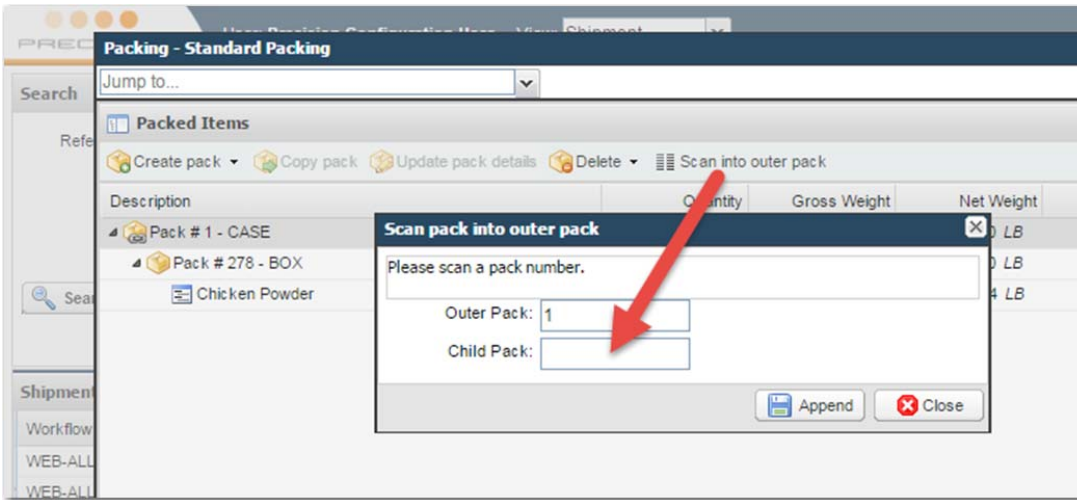


Y3 WORKLOAD TOOLBAR – S ...,label:Delete;tooltip:Delete
Shipment;option:BBSDEL;transaction:Yes;icon:icon54;confirm: Yes,...

Workflow Tasks

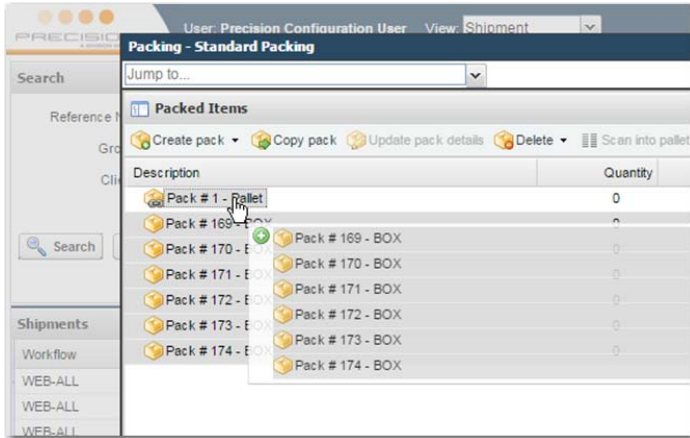
The Standard Packing task has been enhanced to allow you to scan pack numbers to quickly add packs to an outer pack. Select the outer pack, and then click the Scan to Outer Pack button. Enter the first pack number, press F2, and repeat the process until all required packs are added to the outer pack.

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.

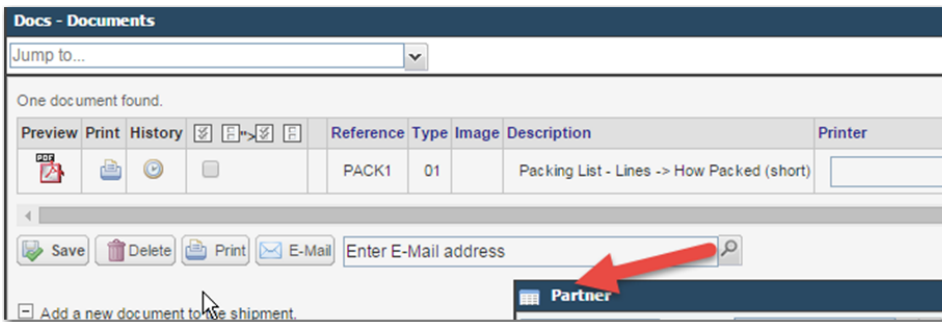
Fig. 19
Standard Packing, Drag and Drop



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.

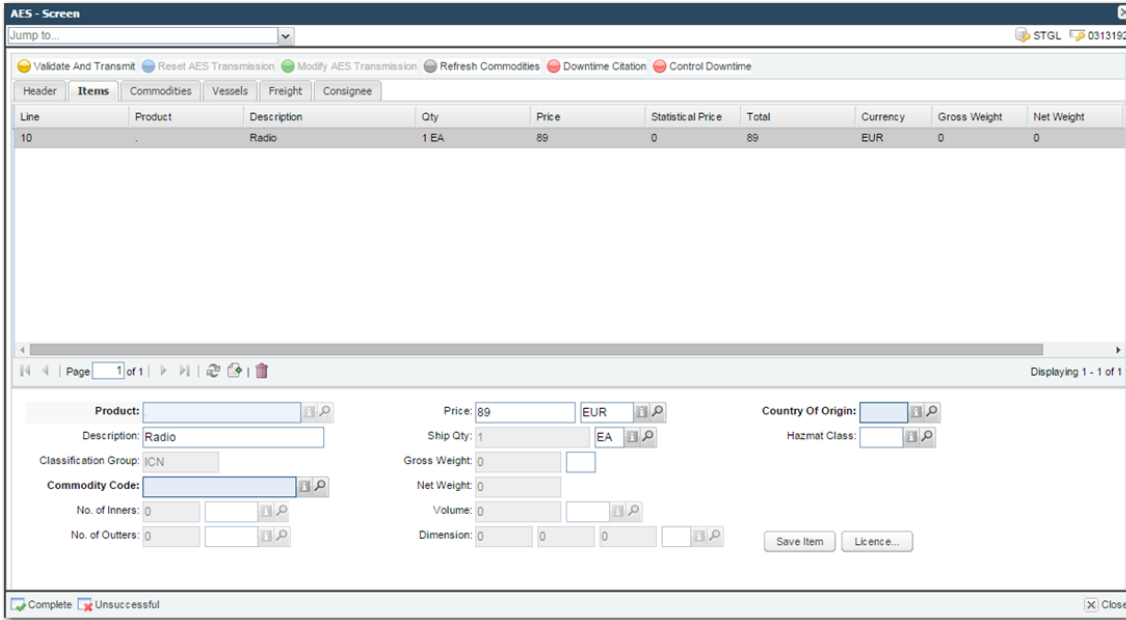
The Documents task has been enhanced to allow you to pull in an e-mail address from the Partner lookup.

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:

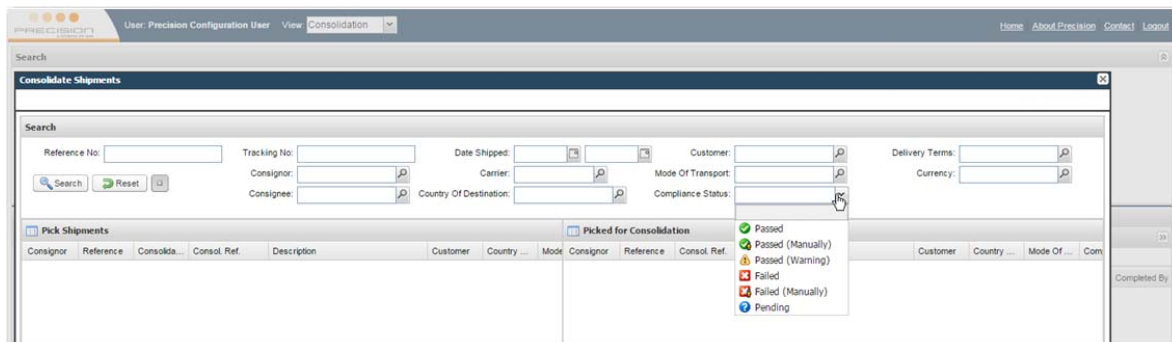
- New XSL style sheets were added.
- ATLAS validation errors were resolved
- The Declaration type field size was changed to 5 instead of 3 on the EU Customs Shipment Header task.

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:

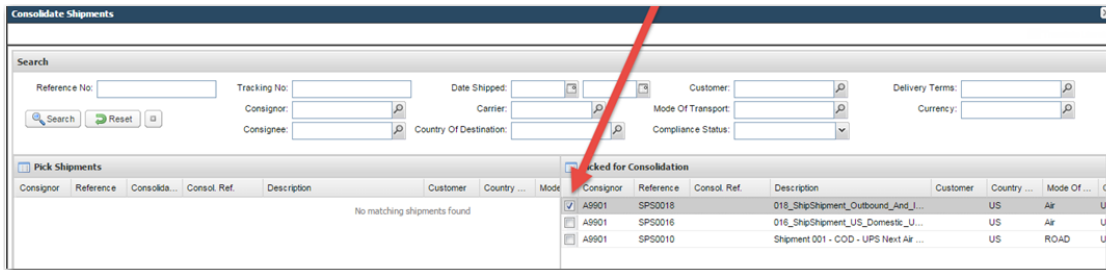
- Customer
- Country of Destination
- Delivery Terms

- 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.

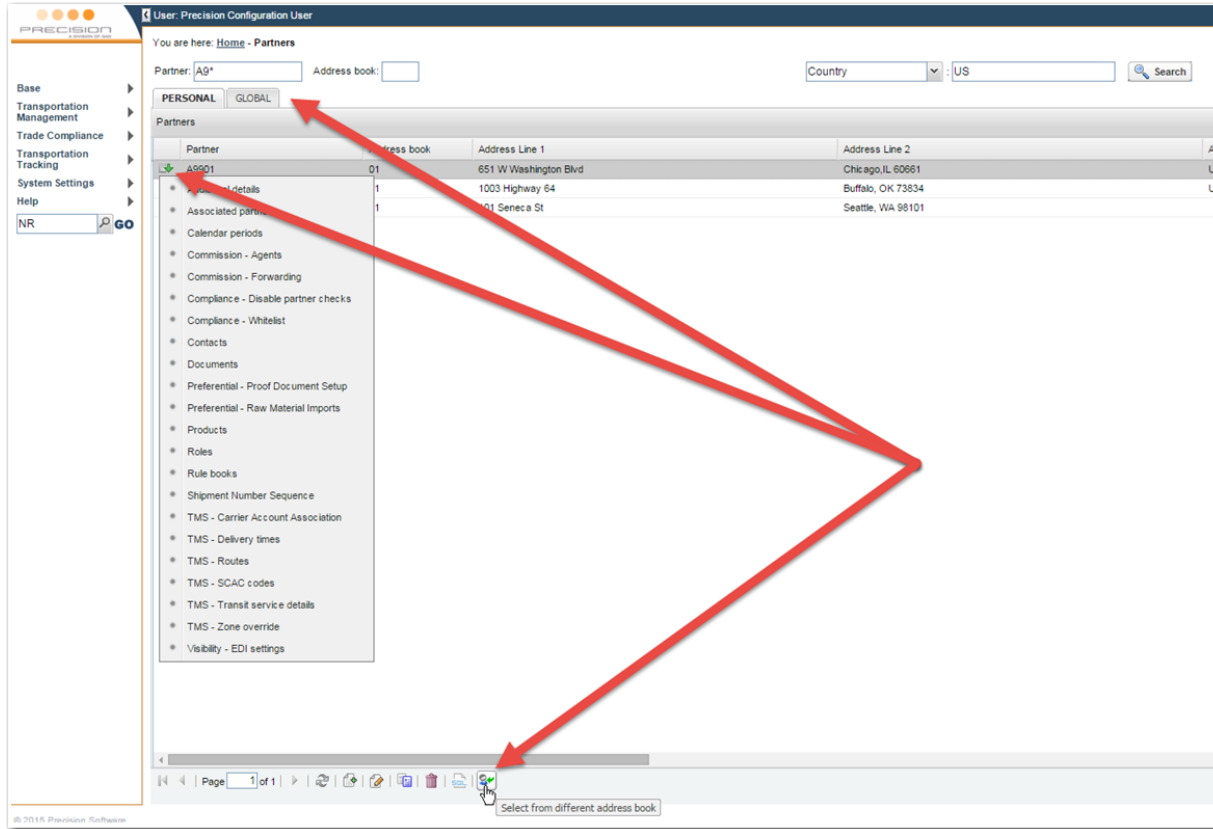
Scan, Pack Ship

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

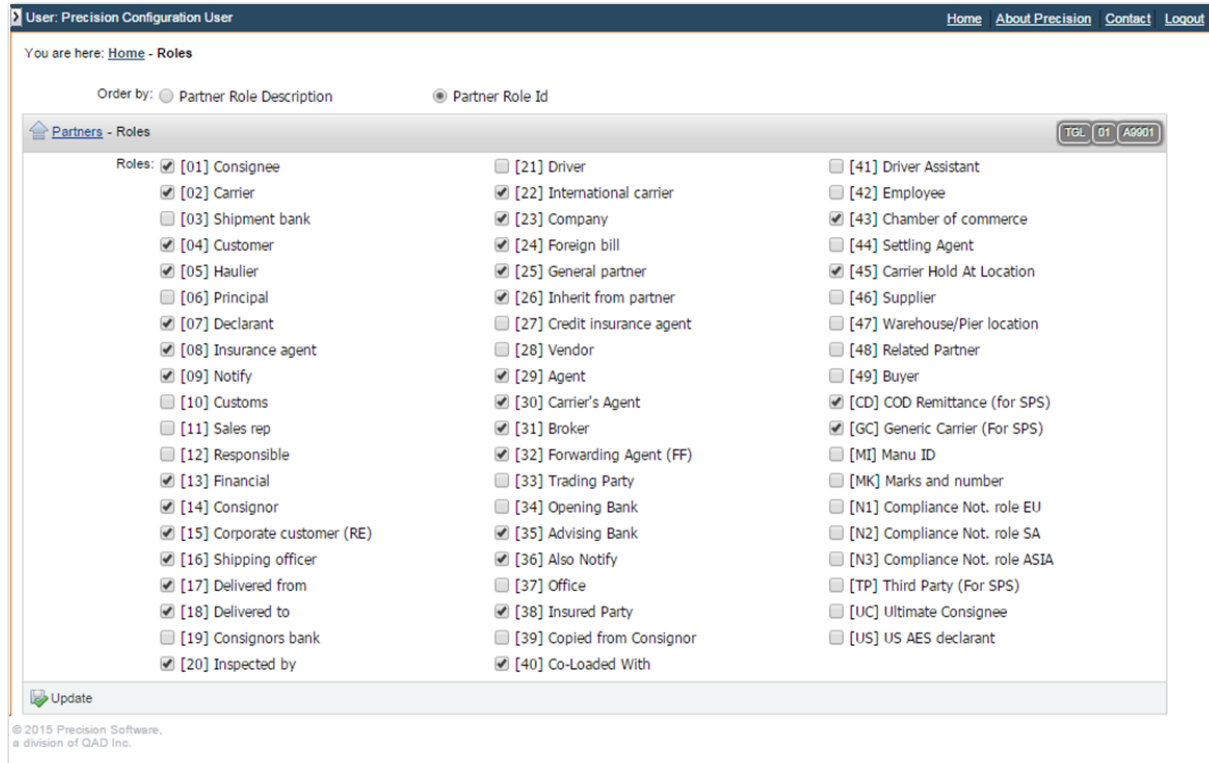


The old Partner Maintenance page is still available using the new option code, NRDTs.

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:

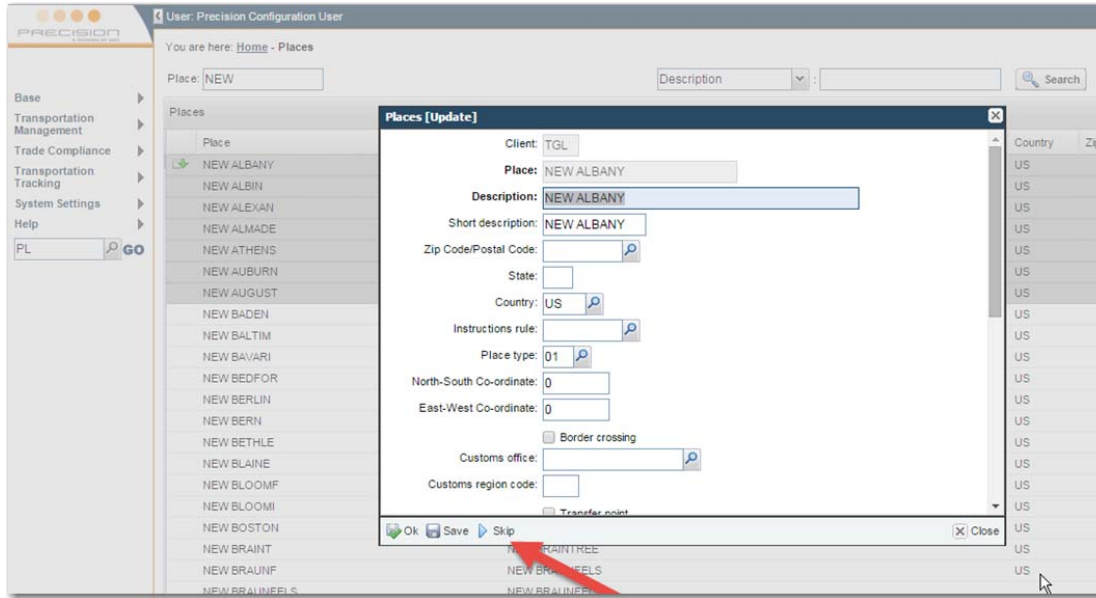
- Workflow Maintenance page (WF)
- Validation performed when creating a new workflow record
- Sorting by sequence functionality in the task grid

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.

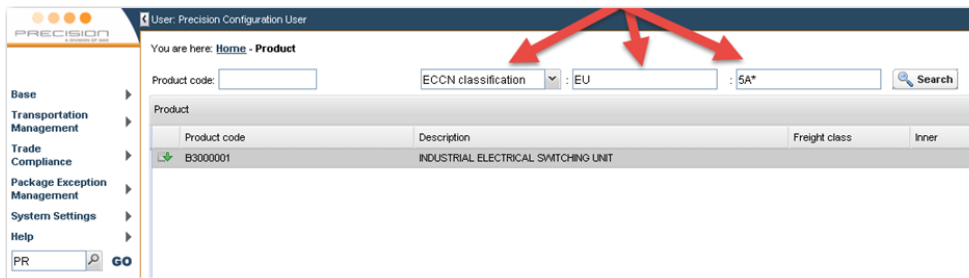
Fig. 26
Multi-Select



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

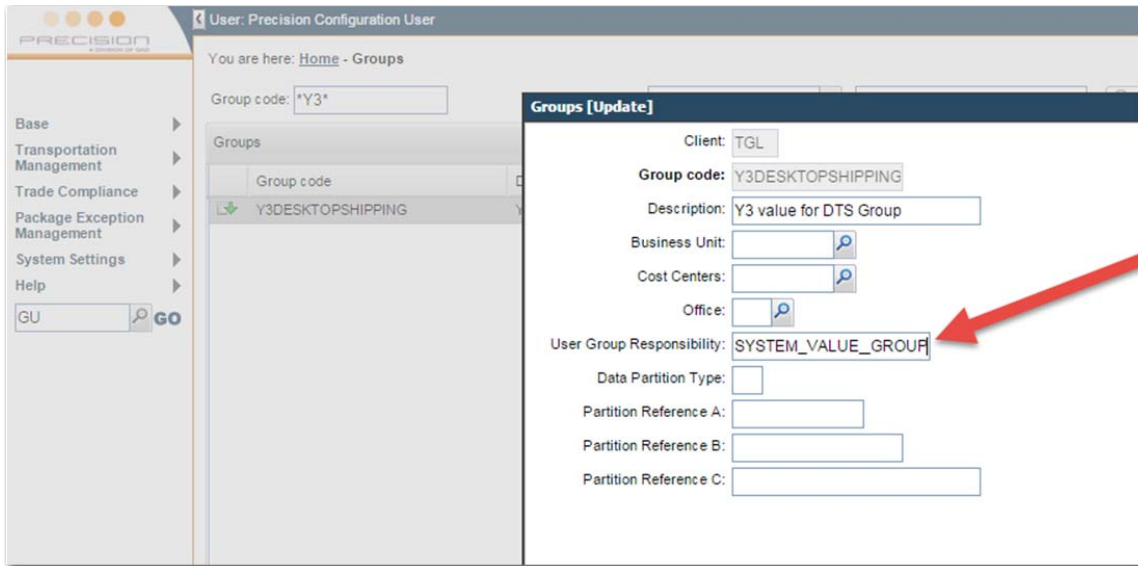
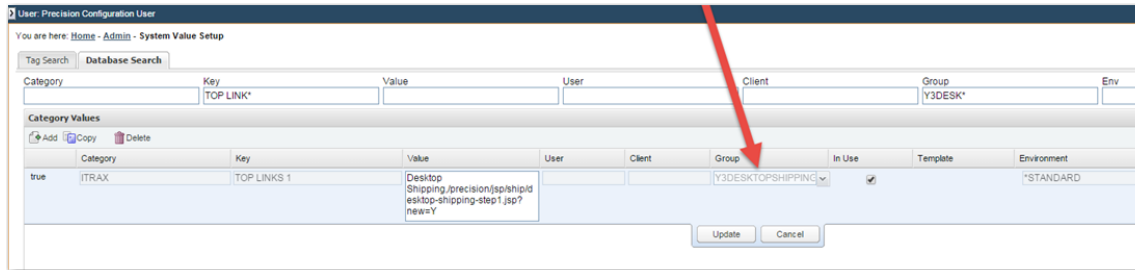


Fig. 29
System Value Group in Read-Only Format



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)

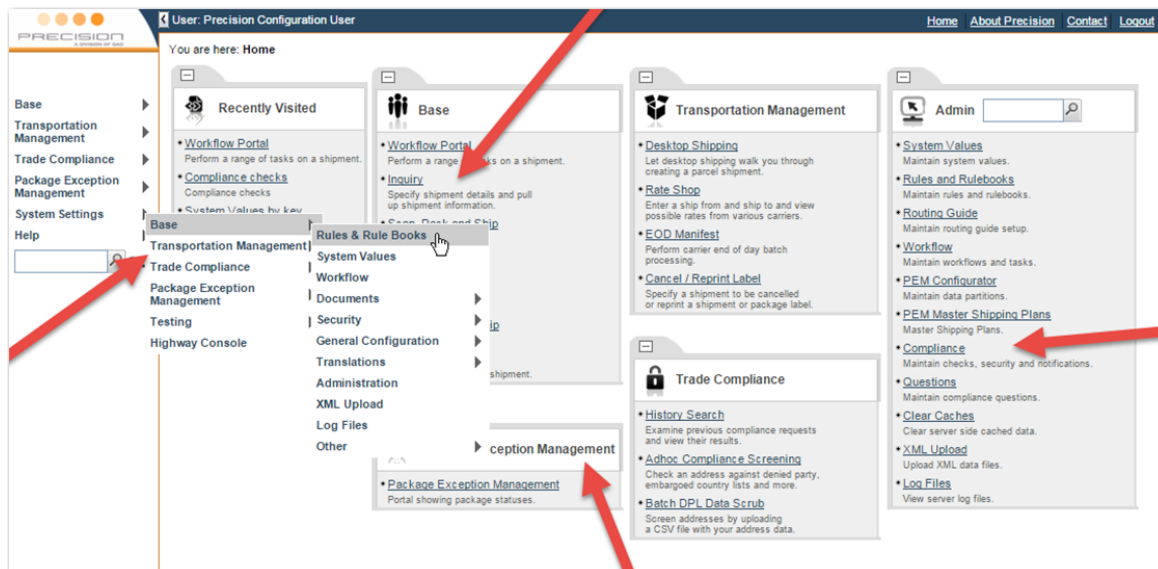
An issue, where the System Value Maintenance page (Y3) was unable to maintain data in JSON format, was fixed. This issue affected system values used by the Scan Pack Ship page.

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



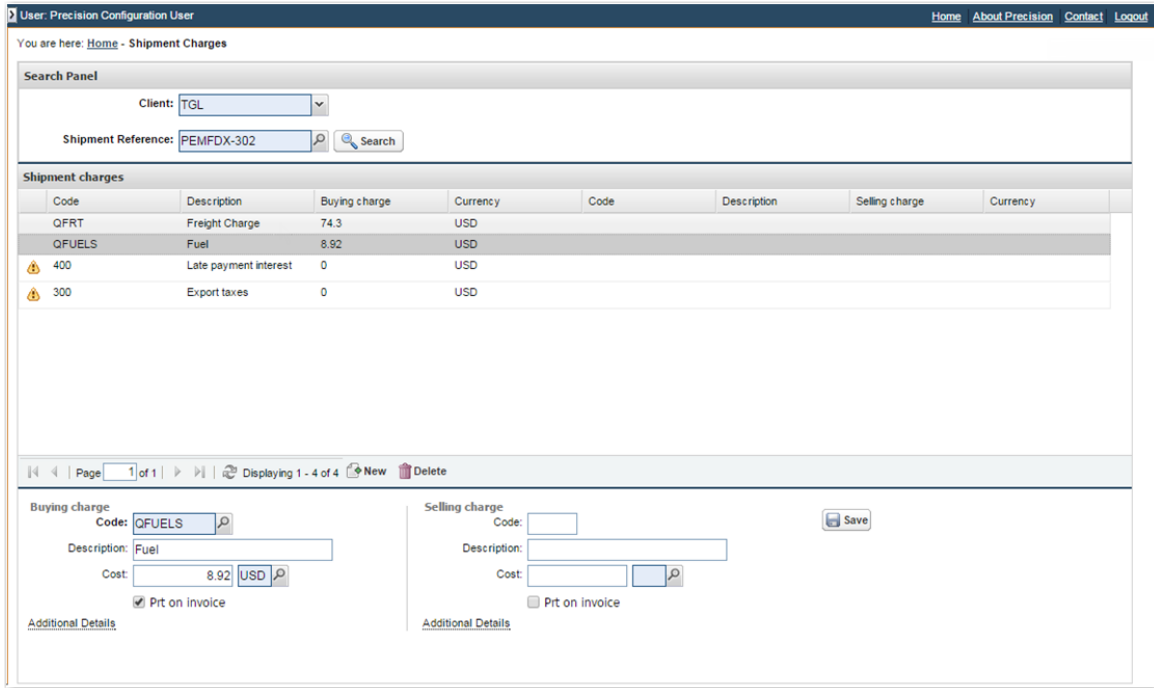
Authentication

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



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, where shipments failed the DPL compliance check after an address was white listed, was fixed.

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.

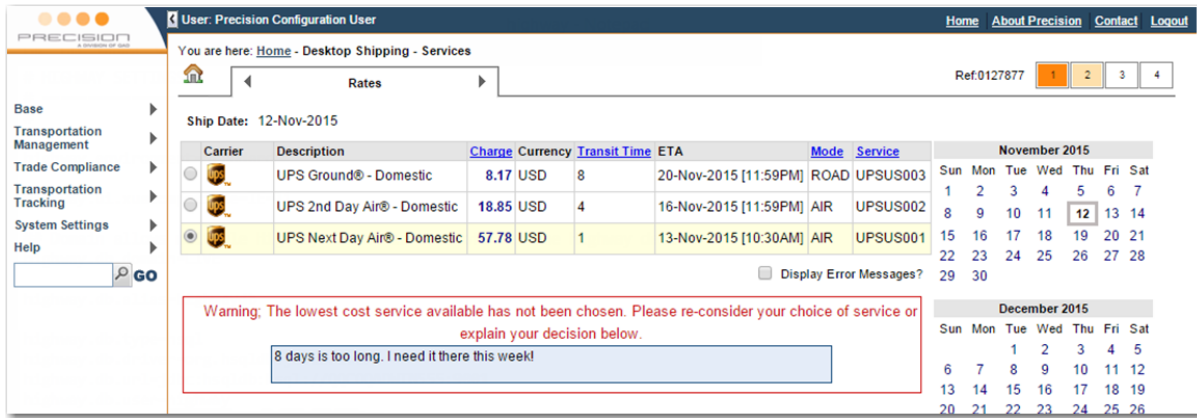
Address Validation

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

Rate Shop Step

- Invalid rates are now excluded when determining if the cheapest rate has been selected.
- An issue, where the expected delivery date could not be used for the subset of services shown, was fixed.
- 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 cheapest 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 SIHGROU 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.lsl1.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

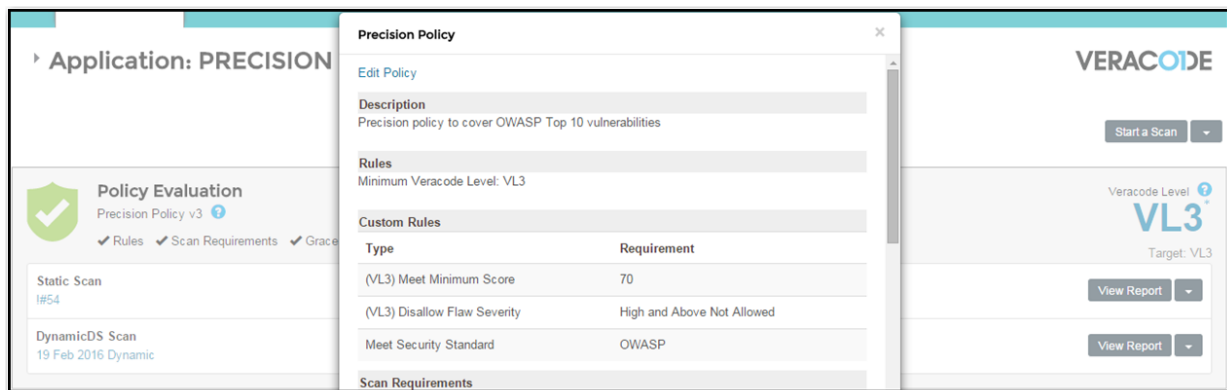
- The WildFly 8.2.1 client jar file is now included with Highway. By default, the file is stored in the folder: C:\Precision\WebUI\highway\connectors\jre\1.7.0_80\lib\ext.
- The <distributed> tag was removed from web.xml, which enables Highway to deploy in WildFly.
- An issue, where queries did not always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

Web UI 5.0

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

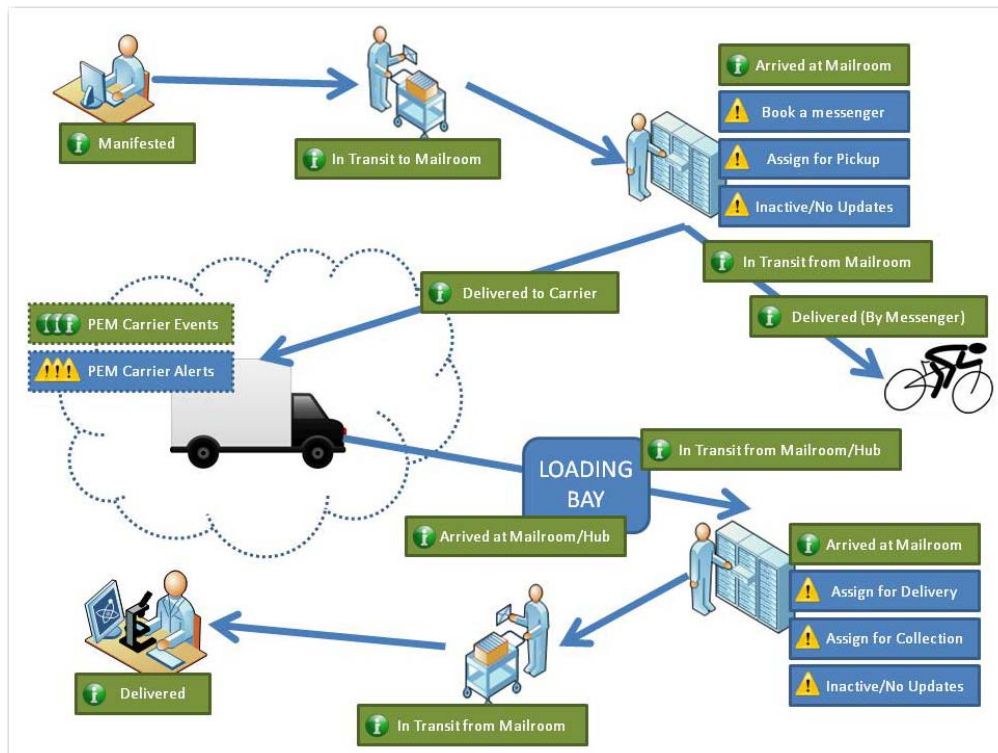
Note For detailed information on these new features, see *PRECISION Web UI 5.0 - Net Change Guide*, which is included with the PRECISION v16.0 release.

Package Exception Management

First Mile/Last Mile Tracking

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

Fig. 34
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

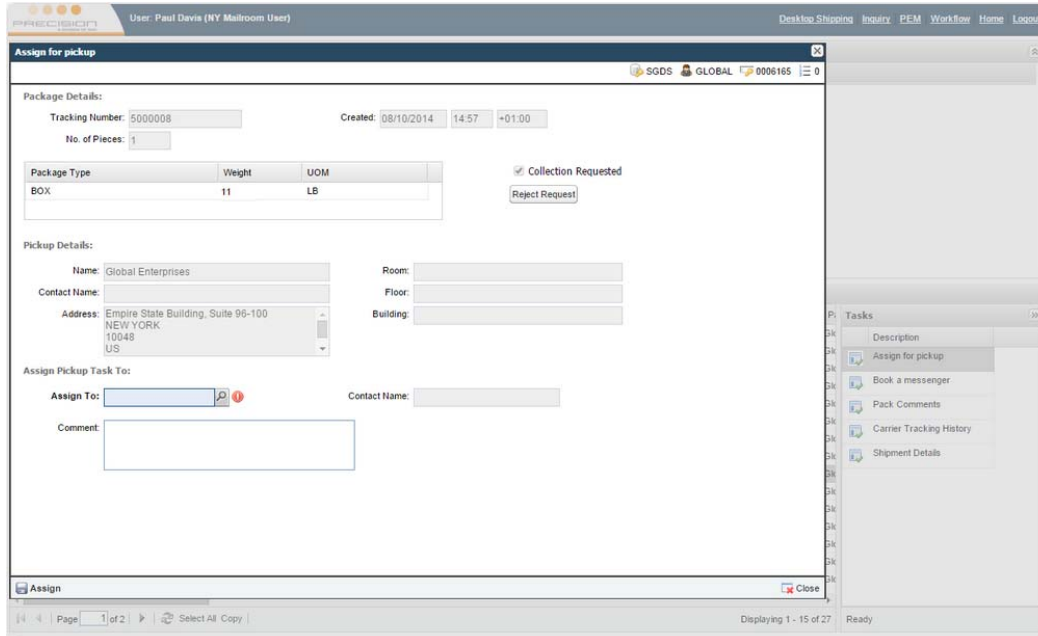
To view master shipping plans, use option MPH.

- 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. 35
Assign for Pickup Task

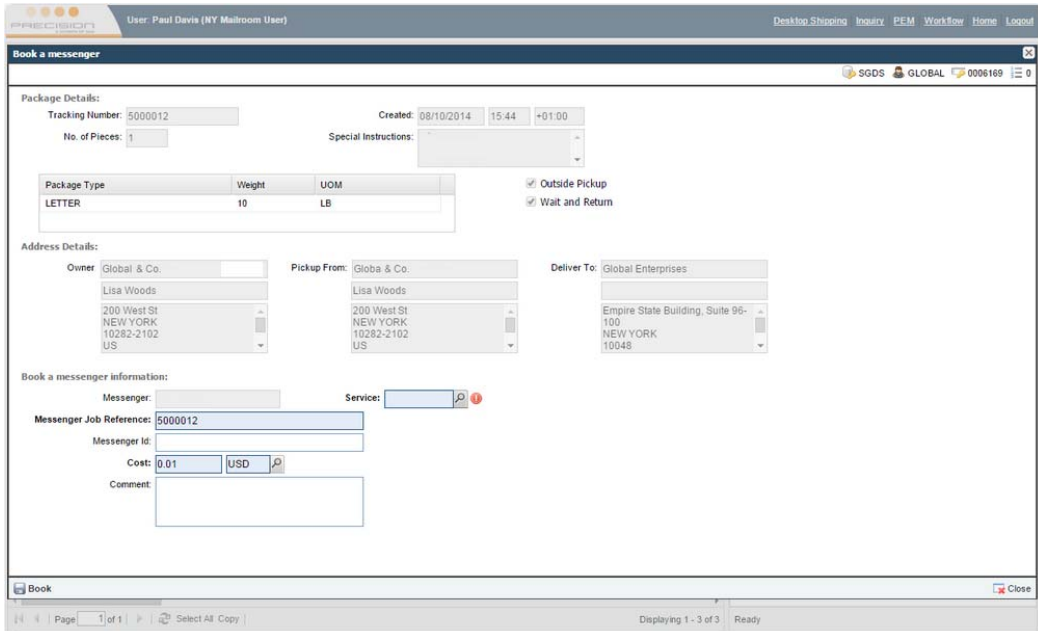


The Assign for Pickup task lets you select multiple packages prior to running the task. The task then iterates through the packages, moving to the next package each time you click Assign.

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. 36
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. 37

PEM Status Scan Option and PEM Status Update Task

The screenshot shows the 'PEM Status Update' web application. The interface includes a search bar, a 'New status' dropdown menu, and various input fields for tracking information, event details, and recipient information. A 'Status Scan' button is highlighted in the bottom toolbar.

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 to 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. 38
User Flags in the Origin/Destination Step

The screenshot displays the 'Origin/Destination' step of the Desktop Shipping process. The 'Ship To' section includes fields for 'Ship To', 'Company Name', 'Attention To', 'Address', 'City', 'State', and 'Postal Code'. The 'Package Details' section includes 'Package Contains', 'Specify Size Using', 'Size', 'Weight', and 'LB'. The 'Shipment Details' section includes 'Promised Date', 'Promised Time', 'Shipment Type', 'Business Unit', 'Cost Center', and 'Project Code'. A 'Request a Collection?' checkbox is checked, and a 'Help - USER_DEFINED_FIELDS' popup is open, providing instructions on how to use user-defined fields for heavy or bulky shipments. Three orange callout boxes point to specific user-defined fields: 'XMSHDR0.SHPSL05' for 'Request a Collection?', 'XMSHDR0.SHFLG5' for 'Outside Pickup', and 'XMSHDR0.SHFLG4' for 'Messenger Wait and Return'.

- 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. 39
Inquiry

The screenshot shows the 'Carrier Tracking' page for a shipment. It displays two sections: 'Inbound' and 'Outbound'. Each section contains a table with package details and a 'Tracking History' table.

Inbound Package Details:

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

Inbound Tracking History:

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

Comments:

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

Outbound Package Details:

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

Outbound Tracking History:

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.

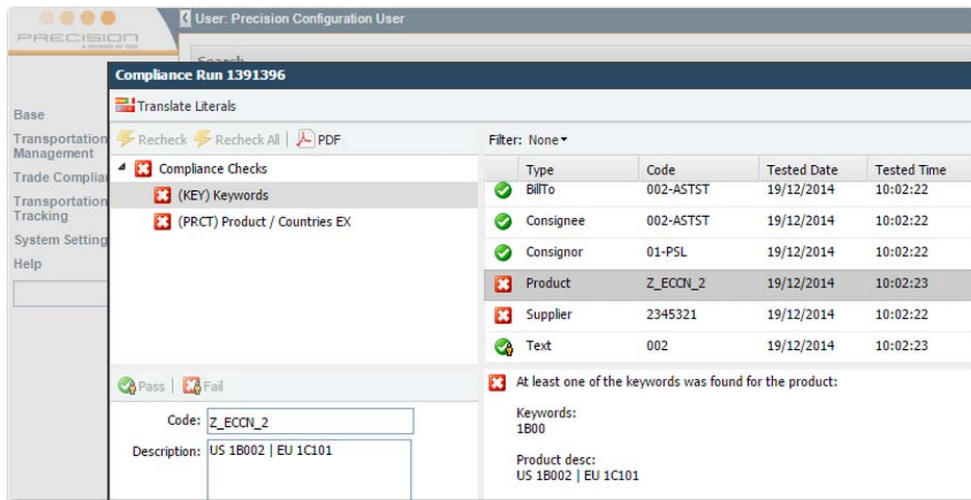
Trade Compliance

Compliance Checks

The compliance engine includes a number of new compliance checks and enhancements to existing checks.

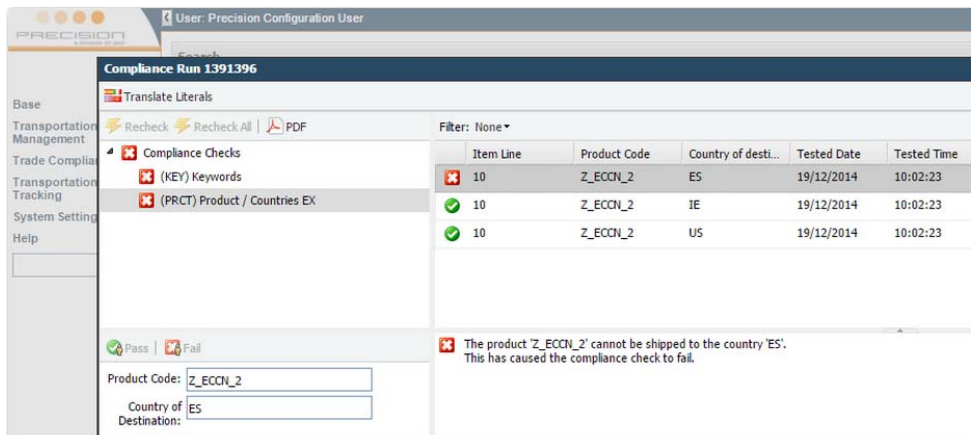
- You can now configure the compliance engine to perform keyword checking on shipment product descriptions and shipment texts. Previously, keywords were only checked against shipment addresses.

Fig. 40
Keywords Check



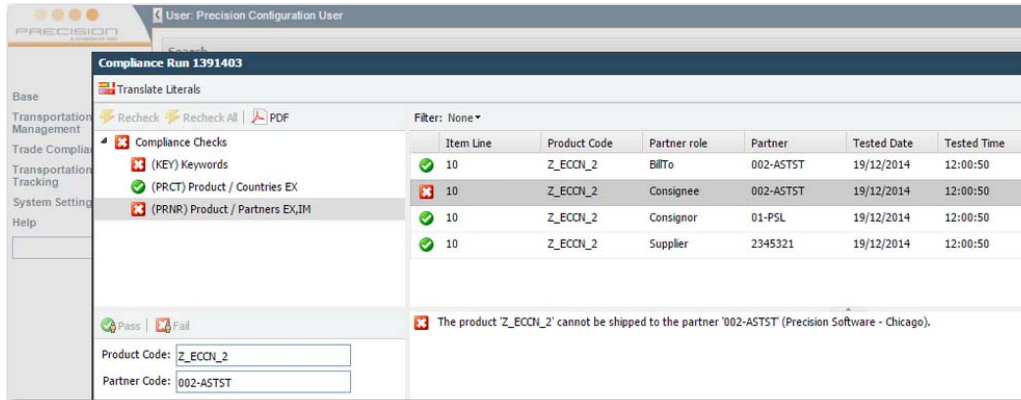
- The new Product to Country of Destination (PRCT) check is similar to the ECLI check, and examines a number of countries on the transaction:
 - Transaction country of destination
 - Transaction country of ultimate destination
 - Item country of destination
 - Item country of ultimate destination
 - Consignee country

Fig. 41
Product to Country of Destination Check



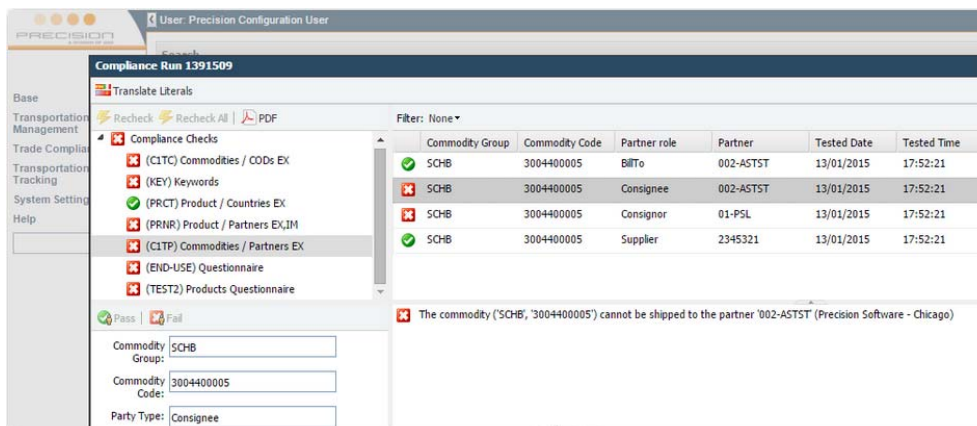
- The new Product to Partner (PRNR) check screens all the parties in the transaction and parties that are associated with an item.

Fig. 42
Product to Partner Check



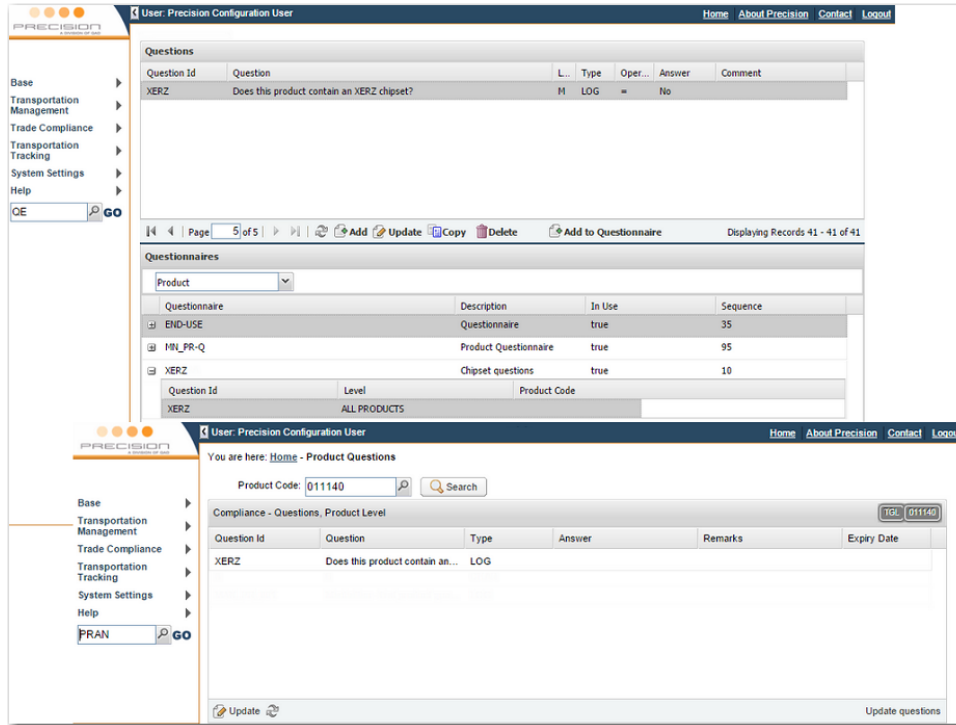
- The new Commodities to Country of Destination (C1TC) check screens the same attributes as the Product to Country of Destination check.
- The new Commodities to Partners (C1TP) check tests whether any of the commodities on the transaction are paired with a specified partner on the transaction. If they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

Fig. 43
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. 44
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. 45
Workflow Tasks Configuration

Workflow Code	Type	Description
ODEMOTMS	S	Transportation Management(TMS)
WEB-ALL	S	Workflow (ALL Web UI Tasks)

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	WFTBP50	WFTBP	50	Packing,Ot...			
120	Packing - Standard Packing	WFTSPK50	WFTSPK	50	Packing,Ot...		10	
130	Packing - Scan>Pack>Ship	SNPKWF50	SNPKWF	50	Packing,Ot...			

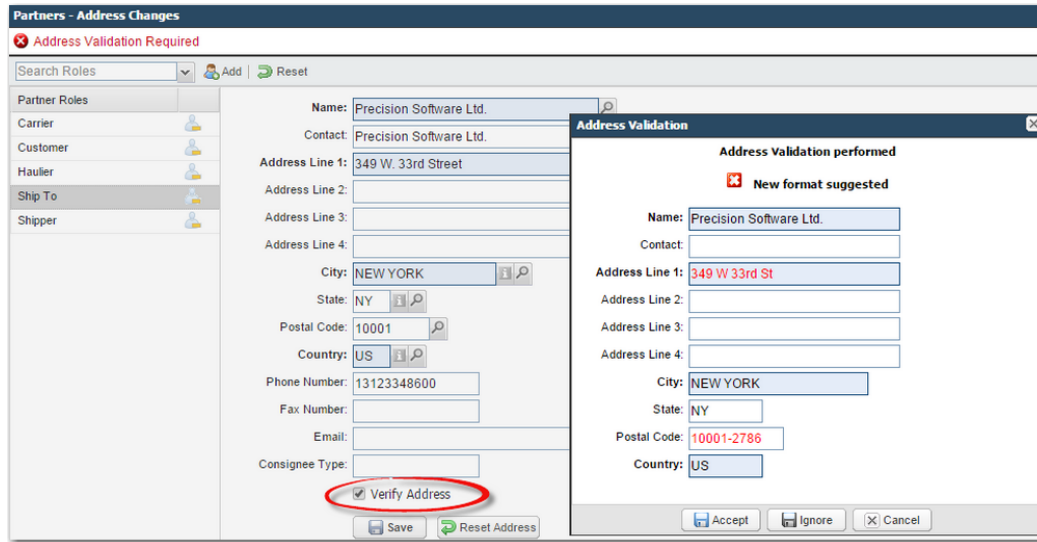
Sequence	Requisite ID	Description	In U
10	WFTMAN50	SPS - Manifest & Rate	true

- 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. 46
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 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. 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.

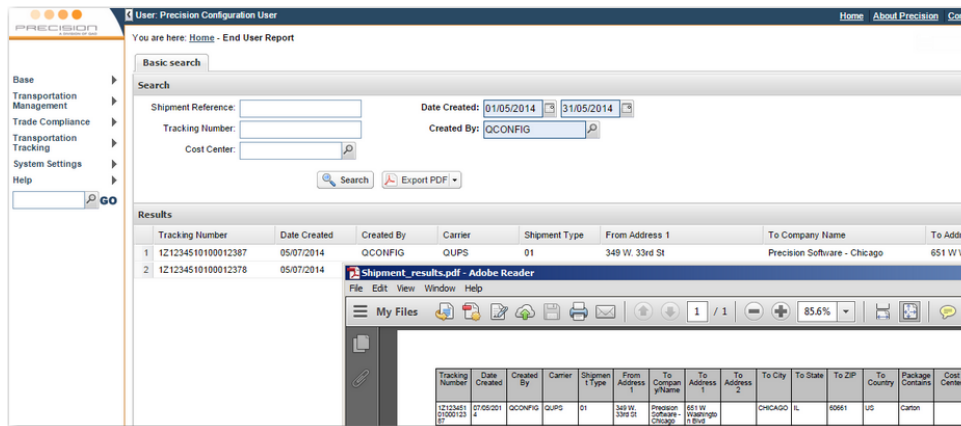
- When you select a tag in the drop-down menu, the grid refreshes automatically; you do not need to click Search.

- 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. 47
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 showed 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. Collating all documents or documents that previously would have been listed on different pages into a single PDF document is now possible. 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 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.
- An issue with the Next button on the Compliance step, which was not enabled after a check override, is resolved.
- The creation of multiple unnecessary partner records for each partner role assigned to the partner no longer occurs.
- 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 displayed when no PDF document is returned as part of creating a new batch.
- Previously, an exception could occur when loading partner matches that were manually failed at an earlier time; 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 previous manually failed partner matches; 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 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 4.0.0

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

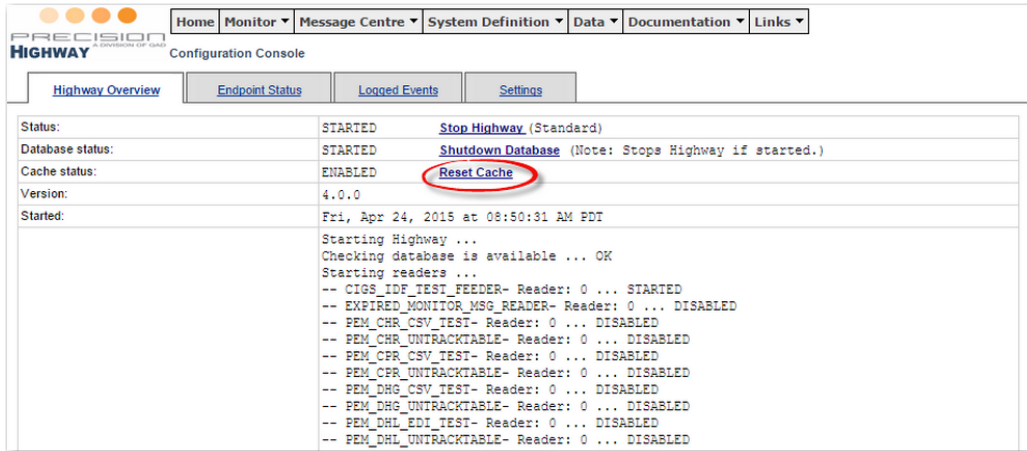
- Multiple Highway instances, each deployed in their own WildFly container, can now use a single database.

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 reset the cache.

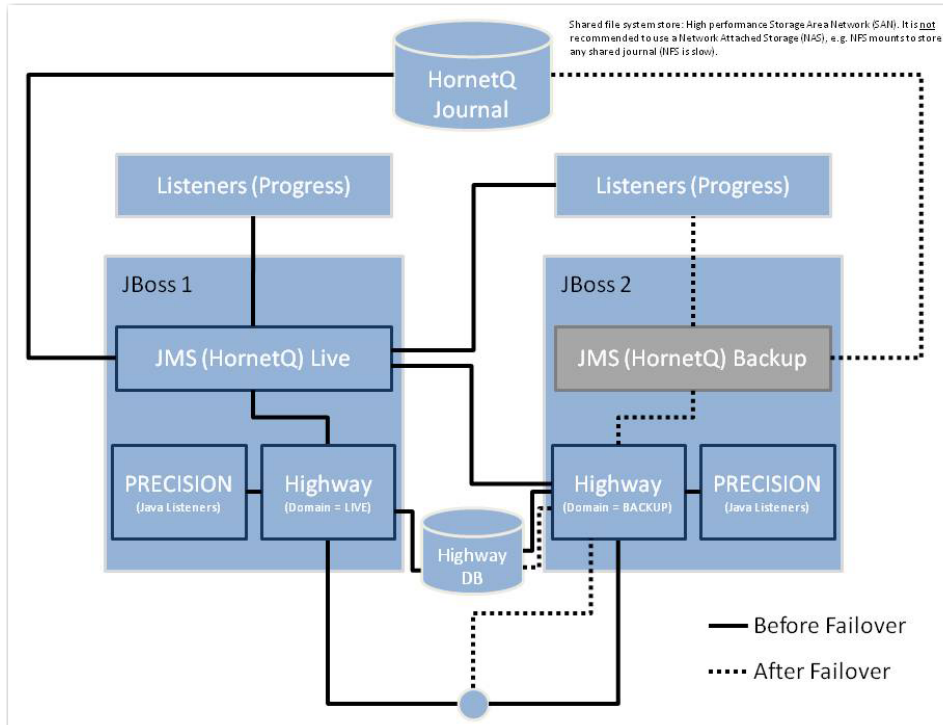
Fig. 48
Reset Cache in Highway



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 JMS cluster. With a JMS cluster, only one WildFly node is running 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. 49
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

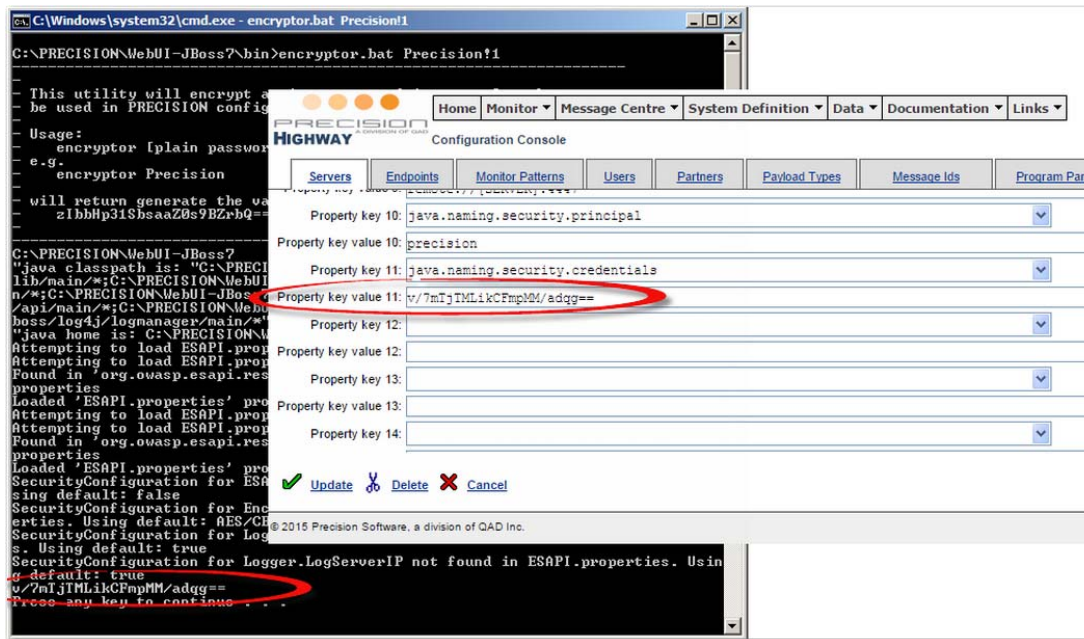
Endpoints

- 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

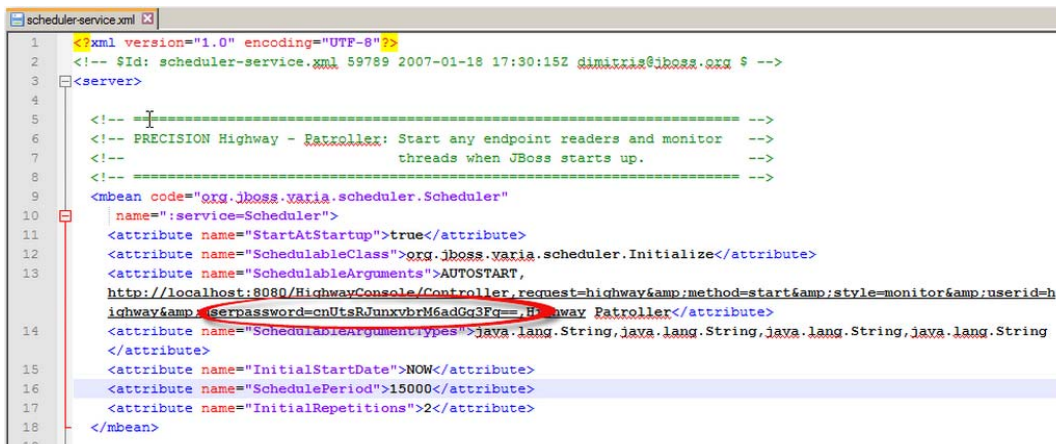
- Endpoint and Server property values held in the Highway database can now be encrypted using the `encryptor.bat` utility.

Fig. 50
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. 51
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.

Note Support for WildFly requires Web UI 5.0.1 and Highway 4.0.1.

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.
- Auto-complete 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) are listed on the Login and Home pages.

Install

- Application server installed by default 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.