QAD Business Intelligence Release Notes

September 2011

These release notes include information about the latest QAD Business Intelligence (QAD BI) fixes and changes. These changes may affect the way you implement and use QAD Business Intelligence.

Review this document before proceeding with any phase of QAD Business Intelligence implementation.

These release notes are cumulative, with the most recent changes displayed first. Review the notes for all releases after your currently installed release. Installation and configuration changes may have occurred in those intermediate releases, and unless otherwise noted, apply to the release where they were announced, as well as subsequent releases.

QAD highly recommends that you implement the latest QAD Business Intelligence release available. Check the QAD Online Support Center to make sure you have the latest QAD Business Intelligence release notes, installation errata, installation guide, and installation media.

http://support.qad.com

Use the following list to find a specific release:

Release Notes for Current Release

QAD Business Intelligence Version: 3.5

Date: September 2011

QAD BI 3.5 continues the evolution of QAD Business Intelligence to bring more analysis and an improved portal with which to explore the data. In addition, it now supports a native iPad app for accessing the Dashboards and Collaborative forums.

This section contains the following topics:

New Feature Summary

iPad App

- A QAD BI app is now available on the Apple app store for iPad devices. It works with this release of the BI Portal. Existing dashboards defined on the BI portal that do not include any parameter bars and have charts on them are available to be viewed from this app. Visual Items available with this release are various types of charts. The rest of the visual item types on the dashboard are not displayed on the iPad. Users can drill into charts from the charts on the dashboard. The app honors user security just like the BI Portal. In addition, users can view the collaboration forums (as defined in the BI Portal), read the topics, and post their own topics and comments. The topics are searchable.

Modules

- Purchasing - purchasing receipt and performance handling has been improved. Performance now includes flags for On Time (within tolerance parameter for early/late); In Full (within tolerance parameters for quantity percent over and under); On Time In Full (if a receipt is both on time and in full); and Return Quality (whether the amount of returns is within a tolerance percentage of total quantity ordered).
- Sales (Order Management) - order history processing has been improved to handle closed orders properly. The system properly determines if an order is a consignment, is scheduled, or has an FSM type. Order Snapshot (fact_po_order) processing now matches other modules in that the user can select snapshots as weekly, monthly, or both.
- Standard Edition (SE) Financials - improvements have been made in AR and AP processing, including currency conversion corrections and handling of partially applied voucher payments. Updated QAD standard portal dashboards for SE AR, AP, and GL have been provided.
- This version includes a new, QAD-branded data warehouse designer that supports Unicode data loads.

Fixes

Component	Issue ID	Description
PORTAL	QBI-514	Two or more dashboards can now have the same name as long as they are in different folders. Previously the portal could display the wrong dashboard when there were dashboards in different folders with the same name.
	QBI-701	Query results are now ordered by column properly when locale-specific numbers are in use.
	QBI-708	In a Portal data security model, two constraints within the same dimension are now ORed rather than ANDed. This means that a user with a security model with two constraints on the same dimension now sees the Superset of values that meet either constraint (rather than the subset of values that meet both constraints only). For example, if the Customer Bill-To dimension has one constraint that Customer Country = UK, and another that the Customer Salesperson 1 Name = John Doe, then the user with this model can now see all records where the Customer Country is UK (no matter what the Customer Salesperson1 Name is), plus all the records where the Customer Salesperson 1 Name is John Doe (no matter what the Customer Country is). Previously the user would only see those records where Customer Country = UK and the Customer Salesperson 1 = John Doe.
	QBI-754	If a chart is viewed via drill-in from another chart, and then collaborated on, the collaboration icon only appears on the proper chart, and not on its parent. Previously the portal would display the icon on the top-level chart of the drill-in hierarchy.
	QBI-789	The Test Run button in the Query Designer now creates the proper Comparative query. Previously the Test Run button would not generate the proper comparative measures.
METADATA	QBI-660	Sales (Order Management) snapshots were previously only weekly; you can now choose to have them done Weekly, Monthly, or Both like other snapshot tables. Default is Monthly.
	QBI-664	Closed orders are no longer excluded from fact_om_order_history.
	QBI-668	fact_om_order_history should no longer create records with overlapping dss_history_start and end dates
	QBI-704	dim_credit_term slowly changing column changed from credit_term_percent_due to credit_term_percent_due_orig to prevent keys from changing daily. New keys should now be generated only when the percent due changes in the record in ERP; previously certain customized versions of the code would generate new keys daily even though the percent due had not changed.
	QBI-705	Blanket Release Purchase Orders are now included in fact_po_order_history.
	QBI-707	Some work tables for OM and PO processing were not filtering for source system code, and therefore processing more records than necessary. These tables now filter by source code, which should improve performance.
	QBI-710	Historic loads of Purchase Order History sometimes failed due to null purchase order dates. The DATE_EARLIEST_POSSIBLE parameter value is now used to set the purchase_order_history_date if the value in the ERP records is null.
	QBI-721	Standard Edition (SE) Accounts Receivable and Accounts Payable currency conversion have been corrected to use override exchange rates where applicable. Also corrected in the SE AR and AP tables was the proper use of the ROUNDNUMBERAP and ROUNDNUMBERAR functions (in some places AR processes had been using the AP function and vice versa); AP Voucher processing now uses credit_term_split_sequence as part of the primary key; and voucher processing uses the proper amount for partially paid vouchers.
	QBI-723	Since the concept of 'bookings' was not really applicable to Purchase Orders, the fact_po_booking table and its associated stage tables have been removed. Also, the po_growth_rate measure has been removed from fact_po_order.

Component	Issue ID	Description
	QBI-724	The fact_ap_invoice_snapshot table has been renamed to the AP Voucher Snapshot table in its Business Display name (end user label), since the concept in AP is better known as Voucher, not Invoice. Also, the primary key has been set to Source_system, domain, invoice_number (from ap_mstr.ap_ref), credit_term_split_sequence (ctd_det.ctd_seq), effective_date.
	QBI-725	The aging measures have been hidden from end user display for fact_ar_invoice_history and fact_ap_voucher_history tables, since they really only make sense in the corresponding snapshot tables (where there will be only one row per invoice) and not in the history tables (where there might be many records per invoice as the records change over time).
	QBI-733	work_po_change_list4 has been corrected to consider changes based upon the perm_update_time rather than the dss_update_time (which was causing it to process records that had not really changed).
	QBI-734	fact_po_order_history insertion has been corrected to ensure the discount_percentage is in the appropriate column order. The incorrect order of columns was causing unnecessary creation of extra rows in the table.
	QBI-736	The primary key for the fact_po_order_history table has been modified to include the dss_version_number, and a second unique index has been added on source_system_code, domain_code, po_number, po_line_number, dss_history_start_date, dss_history_end_date.
	QBI-738	Purchase Order performance changes: Supplier performance tracks order lines received On Time or not On Time (early or late) based on any receipts against the line being early or late factoring in a tolerance days. It also tracks In Full or not In Full, based on the PO line, factoring in a quantity tolerance. Determining the In Full portion of OTIF requires the line to be past due or closed.
	QBI-739	Purchase Receipt changes: In measuring On Time-ness for Supplier Performance KPIs, we need to look at the actual receipts since every receipt needs to be On Time for its own due date. When the Supplier Performance module is used, On Time-ness including built in days tolerances is accurately found via the vepd_det table (one vepd_det record created for every receipt for tracked Suppliers). For End-Users who do not use Supplier Performance and also for End Users who do use Supplier Performance but for PO lines for Suppliers not tracked there, the receipts have a due date associated with that receipt. We indicate the receipt is On Time, early, or late. We now do all this in fact_po_receipt. This accounts for multiple receipts with multiple due dates. If any of the receipts against a line are flagged as early or late, the whole line is NOT OTIF.

	QBI-740	Purchase Order Performance: In Full flag added. In order for a PO Line to be considered In Full, the line must be closed or past due (we are looking at all receipts for a PO Line cumulatively).
		
		If Actual Net Qty Received = Qty Ordered in Ordered UM, then In Full Flag = 1
		
		If (Actual Net Qty Received/ Qty Ordered in Ordered UM) > 1 and <= 1 + % PO_PERCENT_QTY_OVER, then In Full Flag = 1
		
		If (Actual Net Qty Received/Qty Ordered in Ordered UM) < 1 and >= 1 - % PO_PERCENT_QTY_UNDER, In Full Flag = 1
		
		Else In Full Flag = 0
		
		PO_PERCENT_QTY_OVER and PO_PERCENT_QTY_UNDER are new BI parameters

	QBI-741	Purchase Order Performance: On Time In Full flag added. If On Time Flag = 1 AND In Full Flag = 1 then 1 else 0.
	QBI-742	Purchase Order Performance: po_line_quality is now called Returns Flag and is calculated thus: If pod_qty_rtnd > PO_RET_QTY_TOLERANCE * order quantity then 1, else 0. PO_RET_QTY_TOLERANCE is a new BI parameter - note this is a different % quantity tolerance than that used to determine In Full (see QBI-740 above)

Component	Issue ID	Description
	QBI-749	The sourcing and calculation of Quantity Open measures have been corrected in fact_po_order_history, fact_po_order, and fact_po_order_performance. The business name (end user label) for Quantity Open has been changed to Quantity Open in Ordered UM. The business names for the open_amount measures have been changed to Actual Open Value.
	QBI-751	The primary key for the fact_om_order_history table has been modified to include the dss_version_number, and a second unique index has been added on source_system_code, domain_code, order_number, order_line_number, dss_history_start_date, dss_history_end_date.
	QBI-758	Two load tables have been modified to collect information required to determine if a sales order is consignment, FSM, or scheduled. The table load_sod_det now includes columns sod_sched, sod_fsm_type, sod_consigment, and sod_compl_stat (this last column is EE-only). The table load_idh_hist now includes columns idh_fsm_type and idh_sched.
	QBI-761	Some Standard Edition AR and AP columns that are no longer used have been removed from end user display - sort and entity_exchange_rate.
	QBI-763	fact_om_order_history now populates the order status properly for open and closed orders.
	QBI-764	A new dimension has been added named dim_order_line_order_type that is linked to fact_om_order_history and contains flags for whether an order is consigned, scheduled, or has an FSM type (SSM Flag).
	QBI-765	fact_om_order_history will populate order_complete_state properly for EE orders that are closed but still in the system (sod_compl_stat = 01). (Since the sod_compl_stat column does not exist in SE, the order_complete_state for SE records are set to N/A.)
	QBI-766	If the base and transaction currency are the same, but are different from the corporate currency, the currency conversion is now calculated properly. Previously the corporate value would be set to the same as the base & transaction value in this case.

Known Issues

Portal Issues

- The BI Portal application cannot run in the same instance of Tomcat as QXtend. (QBI-174)
- Model changes in DWD are not picked up by custom models until the model is opened in the Portal, saved, and closed. (QBI-127)
- Compare By in Query Design does not allow calculated fields. (QBI-587)
- Export to PDF of report - Chinese characters do not show up properly. (QBI-590)
- The GUI supports translation of repository object names, but the Export/Import object functionality does not yet include the import and export of the translated strings. (QBI-604)
- Rename of Data Security Model changes name in Model screen, but not in Add/Edit User screen. (QBI-626)
- Query Designer Advanced mode cannot be used if the query includes a Comparative component. (QBI-671)
- In the BI Portal, a Dashboard text area cannot be edited when Firefox is the browser. (QBI-677)

Metadata (Module) Issues

- fact_ar_invoice_history has the 'entered date' value stored as a degenerate dimension value rather than as a dimensional join. This will change to a full dimension join in future releases of the BI data warehouse. Doing so might cause some queries to need to change in the future. (QBI-26)

- fact_om_order_performance sometimes provides false late measures. (QBI-700)
- The extended amounts calculated for any closed orders is 0 because the extended amount is calculated using the open_amount, not the order_amount. (QBI-631)
- Corporate amounts in fact_ap_invoice_snapshot are always 0. Note that the amounts in the Base currency are correct. (QBI-777)
- Installation of BI analytical modules in a pre-domain ERP environment requires manual changes to metadata. (QBI-691)
- The FINANCIAL_REPORT_GENERATOR job only works on Standard Edition data, not on Enterprise Edition. (QBI-697)

Data Warehouse Tables Changed

The following sections list the Data Warehouse tables that have been changed, added, or deleted. Note that those in the Modified list may have been changed structurally (for example, columns added or deleted), or they may have had indexes added or deleted, or they may have had changes made to business display names or visibility of particular columns in the BI Portal, or any combination of these modifications.

List of Tables Modified

- dim_credit_term
- dim_exchange_rate
- fact_ap_check
- fact_ap_invoice_snapshot
- fact_ap_voucher
- fact_ap_voucher_history
- fact_ar_invoice_history
- fact_ar_invoice_snapshot
- fact_ee_ap_invoice_snapshot
- fact_om_booking
- fact_om_invoice
- fact_om_order
- fact_om_order_history
- fact_om_order_performance
- fact_om_shipment
- fact_po_order
- fact_po_order_performance
- fact_po_receipt
- load_idh_hist
- load_sod_det
- stage_ap_check_base2
- stage_ap_check_base3
- stage_ap_check_base4
- stage_ap_check_voucher_sum
- stage_ap_voucher_base
- stage_ap_voucher_base2
- stage_ap_voucher_base3
- stage_ap_voucher_base4
- stage_ap_voucher_hist_final
- stage_ap_voucher_history
- stage_ar_invoice_base1
- stage_ar_invoice_base2
- stage_ar_invoice_base3
- stage_ar_invoice_base4
- stage_ar_payment_base1

- stage_ar_payment_base2
- stage_ar_payment_base3
- stage_ar_payment_base4
- stage_credit_term
- stage_om_invoice_line
- stage_om_invoice_order_line
- stage_om_order
- stage_om_order1
- stage_om_order2
- stage_om_order3
- stage_om_order_hist_end_date1
- stage_om_order_hist_end_date2
- stage_om_order_inv_line
- stage_om_order_inv_line1
- stage_om_order_inv_line2
- stage_om_order_line
- stage_om_order_line_all
- stage_om_order_snap
- stage_om_order_snap1
- stage_om_order_snap2
- stage_om_order_transaction
- stage_om_order_transaction1
- stage_om_order_transaction4
- stage_om_order_transaction5
- stage_po_ord_perf
- stage_po_ord_perf1
- stage_po_ord_perf2
- stage_po_ord_perf_curr1
- stage_po_ord_perf_date
- stage_po_ord_perf_date1
- stage_po_ord_perf_full
- stage_po_order_hist1
- stage_po_order_hist3
- stage_po_order_hist_initial1
- stage_po_order_hist_initial3
- stage_po_order_hist_initial6
- stage_po_receipt
- stage_po_receipt1
- stage_po_receipt2
- stage_po_receipt3
- stage_po_receipts_perf1
- stage_po_receipts_perf2
- stage_po_receipts_perf_rank
- stage_po_receipts_perf_top
- work_om_change_hist_list
- work_po_change_hist_list
- work_po_change_list4

List of Tables Added

- dim_order_line_order_type
- load_order_line_order_type
- load_shop_cal
- load_vep_mstr
- load_vepd_det
- stage_om_order_snap3
- stage_om_order_snap4

- stage_order_line_order_type
- stage_po_receipt_ontime_tolerance
- stage_po_receipt_perf
- stage_po_receipt_vep_perf
- stage_shop_cal
- work_po_perf_list

List of Tables Deleted

- stage_po_booking
- stage_po_booking_orig_order
- stage_po_booking_previous
- stage_po_booking_transaction
- stage_po_booking_transaction1
- stage_po_booking_transaction2
- stage_po_booking1
- stage_po_booking2
- stage_po_booking3
- stage_po_booking4
- fact_po_booking

Upgrade to QAD BI 3.5 from BI 3.4.1

BI Portal Upgrade Procedure

Preparation

- Shut down Tomcat.
- Back up the BI Portal database.

Upgrade Steps for QAD BI Portal

1. Copy the `TOMCAT_HOME\webapps\your_bi_appname` directory to *`TOMCAT_HOME`*`\`*`your_bi_appname.save341`* so that you have a backup of your BI 3.4.1 web application.
2. Unzip the new BI 3.5 Portal data.zip file into `TOMCAT_HOME\webapps\`*`your_bi_appname`*, overwriting any existing files with the newer version from the data.zip file. Your configuration files will not be overwritten.
3. Delete the file `TOMCAT_HOME\webapps\`*`your_bi_appname`*`\WEB-INF\lib\xstream-1.3.1.jar`.
4. Start Tomcat.

   Note Users may need to clear their browser cache prior to reconnecting to the BI Portal to ensure that they are running the latest version of the application. Go to the Portal URL in the browser and click on the Refresh button to make sure that the latest version of the application is loaded.

Verification

Connect to your BI Portal. Click on the About link on the login screen and verify that the Version is 3.5 and the Build Number is BI3-TRUNK-JOB1-1086.

BI Metadata Upgrade Procedure

Refer to the release notes for what has changed in this release.

Preparation

1. Plan for a couple of hours of down time.
2. Ensure that none of the loads are currently in progress. All jobs must be completed.
3. Put all scheduled jobs On Hold until the upgrade is complete. Shut down scheduler.
4. Take a backup of the current warehouse database.
5. Before you begin, make note of the following:
   a. Note any DAILY_LOAD_SOURCE_Sxx jobs that appear after the standard _SNAPSHOT tables.
   b. Note any HIST_LOAD_SOURCE_Sxx jobs that appear after the standard _SNAPSHOT tables.

Important This upgrade will replace some load and stage tables, so if there are any customizations to these tables, ensure that they are ready to be made again.

Upgrade Steps for QAD BI Metadata

1. Due to significant improvements in Purchase Order processing, the fact_po_receipt, fact_po_order_history, and fact_po_order_performance tables need to be reloaded completely. Corrections made to the SE Financials module require the re-processing of SE AP and AR data. The fact_om_order_history table must also be reloaded. Truncate these tables now; after the upgrade application is loaded, jobs will be run to reload these tables using the new processing. In SQL Server, truncate the tables as follows:
   - truncate table fact_po_receipt
   - truncate table fact_po_order_performance
   - truncate table fact_om_order_history
   - truncate table fact_ap_voucher_history
   - truncate table fact_po_order_history
2. Log in to Setup Administrator.
3. Set your application directory to the new metadata folder. Load Application 35-up (new/modified tables, procedures, parameters, and jobs) by right-clicking on it and choosing Install.
   a. A dialog box will prompt you to proceed; click OK.
   b. The next dialog box is for Application Load Properties:
      - Select Dimension on the left; on the right, click on the box next to Existing Dimension objects will be and select Altered.
      - Select Dimension View on the left; on the right, click on the box next to Existing Dimension View objects will be and select Recreated.
      - Select Stage Table on the left; on the right, click on the box next to Existing Stage table objects will be and select Recreated.
      - Select Permanent Stage Table on the left; on the right, click on the box next to Existing Permanent Stage table objects will be and select Altered.

- Select Fact Table on the left; on the right, click on the box next to Existing Fact table objects will be and select Altered.
- Click OK.

4. The upgrade application installation will take some time as the load process alters/recreates various objects. Once the process completes, make any necessary customizations to your load tables. Verify that all other customizations are not affected.

5. The upgrade application output may have errors that some indexes could not be dropped; this is OK as they are new indexes that do not yet exist in the database (the upgrade script tries to drop each index prior to re-creating it; the drop will fail if the index is new). Any other errors in the upgrade output other than those index errors listed above should be noted; consult QAD Support before continuing.

6. Start the Scheduler, but make sure all jobs are still suspended.

7. You must populate some new parameters and possibly modify some existing values, as follows:

   a. Modify PO_RET_QTY_TOLERANCE, PO_PERCENT_QTY_UNDER, PO_PERCENT_QTY_OVER from the default values if desired:

      - PO_PERCENT_QTY_OVER: Percentage of Receipt Quantity over Order Quantity for a Purchase Order to still be considered In Full. Default value is 10%. In other words, the actual quantity received can be up to 10% greater than the amount ordered and the order line will still be considered In Full. If the quantity received is greater than the quantity ordered plus 10%, the order line is not considered In Full.
      - PO_PERCENT_QTY_UNDER: Percentage of Receipt Quantity under Order Quantity for a Purchase Order to still be considered In Full. Default value is 10%. In other words, the actual quantity received can be up to 10% less than the amount ordered and the order line will still be considered In Full. If the quantity received is less than the quantity ordered minus10%, the order line is not considered In Full.
      - PO_RET_QTY_TOLERANCE: This is the Percentage of Returns Quantity used for calculating the Defect Rate. Default value is 15%. In other words, if the return quantity is greater than 15% of the order quantity, the order line will be considered a defect.

   b. Modify SALES_SNAPSHOT_REPLACE_FLAG and SALES_SNAPSHOT_FREQUENCY from the default values if desired:

      - SALES_SNAPSHOT_REPLACE_FLAG: Y to replace the snapshot for recalculated periods when the SALES_ROLLUP job is run; N to just add new records and not update previously calculated records. Default value is N.
      - SALES_SNAPSHOT_FREQUENCY: Set to M for monthly snapshots, W for weekly snapshots, or B for both monthly and weekly. Default value is M.

   Important Check the PO_ORDER_HISTORY_DATE and SALES_ORDER_HISTORY_DATE parameters. If the current date minus the PO_PROCESS_DAYS is newer than the PO_ORDER_HISTORY_DATE, or the current date minus the SALES_PROCESS_DAYS is newer than the SALES_ORDER_HISTORY_DATE, increase the process days value so that the current date minus that number of days will produce a date that is before the related ORDER_HISTORY_DATE (PO or SALES).

8. Set INITIAL_JOB_SETUP_DATE to the current date.

9. Change INITIAL_JOB_SETUP_ENABLED to Y.

10 Check the following jobs for customizations. Note any custom changes that have been made; reapply them to the new job templates. Then delete the following jobs for each existing source (Note: do NOT delete the job name ending in _XXXXXXXX; that is the template from which the source-specific jobs will be created):
   - DAILY_COMMON_PROCESS_sourcename
   - DAILY_PERM_sourcename (CAUTION: do NOT deleted the job named DAILY_PERM_EXTRACT)
   - DAILY_PO_PROCESS_sourcename
   - DAILY_SALES_PROCESS_sourcename
   - HIST_COMMON_PROCESS_sourcename
   - HIST_PERM_sourcename
   - HIST_PO_PROCESS_sourcename
   - HIST_SALES_PROCESS_sourcename

11 In the Scheduler, run the INITIAL_JOB_SETUP job.

12 The list of History and Daily jobs will have been rewritten by the INITIAL_JOB_SETUP job. Make sure any customizations that were made to the new job templates are now in the source-specific copies of those jobs (or reapply any customizations as necessary). Also add to the end of the DAILY_ and HIST_ load lists any jobs that occurred after the snapshot jobs (which you noted in the Preparation section).

13 This might be a good time to review the Parameters and their definitions in the BI 3.5 Installation Guide. Check your parameter settings; you might want to consider changing some, such as various PROCESS_DAYS and SNAPSHOT_NUM_DAYS values, to make sure you are not reloading extra data unnecessarily each day. The module PROCESS_DAYS are typically set to 10 by default; SNAPSHOT_NUM_DAYS are set to 31 by default.

Fixing Existing Fact Tables

Now run the jobs to reload the fact tables you had truncated earlier. Note that you will need to run these for each source. Depending on the amount of history data in your system, these jobs may take a while to run.

1 Set parameter JOB_CHAINING_ENABLED to N.

2 Run the job SET_CONNECTION_XXXXXX, where XXXXXX = the source connection name.

3 Run HIST_PERM_EXTRACT.

4 Run the job HISTORY_RELOAD_OM_35_UPGRADE.

5 Run the job HISTORY_RELOAD_PO_35_UPGRADE.

6 Run the job UPGRADE_FACT_PO_RECEIPT_341_TO_35.

7 (SE sources only) Run the job RELOAD_SE_AP_AR_FROM_PERM.

8 Repeat steps 2-7 for each source connection (if you have multiple sources).

9 Run the job HISTORY_SALES_ROLLUP.

10 Run the job HISTORY_PO_ROLLUP.

11 When upgrade jobs have been run for all sources, make sure to set the parameter JOB_CHAINING_ENABLED back to Y.

Re-create Purchasing Cube

If you use the Purchasing cube, you must delete the measure group that referenced the fact_po_booking table:

1. Delete the cube in the Analysis Server.
2. In the DWD, right-click on the OLAP Purchasing cube and select Display Measure Groups.
3. Right-click on the fact_po_booking measure group and choose Delete Measure Group. Click OK to answer the verification questions about deleting the associated measures.
4. Right-click on the OLAP Purchasing cube and choose Create (Alter) Cube.
5. Process the cube.

Upgrade should be complete at this point. Resume normal processing.

To Add a new Source

If you want to add an additional data source, do the following:

1. Add the new source name to DAILY_LOAD_SOURCE_Sxx (where xx represents the next number in the sequence).
2. Add the new source name to HIST_LOAD_SOURCE_Sxx (where xx represents the next number in the sequence).
3. Add the new source name to INITIAL_JOB_SETUP_CONNECTION_xx (where xx represents the next number in the sequence).
4. Add a new INITIAL_JOB_SETUP_CONNECTION_xx_RUN (if it does not already exist) and set its value to N.
5. Add a new INITIAL_JOB_SETUP_CONNECTION_xx_TYPE (if it does not already exist) and set its value to either EE or SE depending on which type your financials system for that source is.
6. Make sure INITIAL_JOB_SETUP_DATE is set to the current date.
7. Double-check the INITIAL_JOB_SETUP_CONNECTION_xx_RUN parameters to make sure that any sources that have been historically loaded have a Y next to their relative _xx_ number and that any new sources have an N.
8. Go to the Scheduler. Start the HIST_START job. Once it starts, double-check to make sure it started running HIST_ jobs only for your new data source.

Update Portal Model

Log in to the Portal as an Administrator. Go to the Administration menu and choose Model Administration. Click on Rebuild Model.

After the model has been rebuilt, if you have any custom data models, open each model and save it to ensure that it picks up changes in the Master model.

Update Portal Documentation and Standard Objects

Update the metadata documentation:

- Delete the existing `TOMCAT_HOME\webapps\`*`your_bi_appname`*`\documentation\suite` directory.
- Unzip the latest qadbi-documentation.zip (found on the BI 3.5 Modules CD) into your `TOMCAT_HOME\webapps\`*`your_bi_appname`*`\documentation` directory.

To install the latest BI Portal standard objects, copy these files from the BI 3.5 Modules CD into your `TOMCAT_HOME\webapps\`*`your_bi_appname`*`\export` directory:

- `BI35_deprecated_items.zip`
- `qad_standard_items.zip`

Then, in the BI Portal:

1. Log in as an Administrator.
2. Go to the Administration -> Data Migration screen.
3. Click on the Import tab.
4. Select the Update existing records box.
5. Click the radio button in front of File on server.
6. Enter in the box the file name `BI35_deprecated_items.zip` and click on Import.
7. Repeat for the `qad_standard_items.zip` file.

Release Notes for 3.4

QAD Business Intelligence Version: 3.4

Date: March 2011

QAD BI 3.4 continues the evolution of QAD Business Intelligence to bring more modules for analysis and an improved portal with which to explore data. The data warehouse has been extended to include Financials (Enterprise Edition) schema set and a few extensions (new metrics) to the Purchasing schema. The portal is now internationalized so users of different languages can query/analyze the data in their preferred language. Also, the power of Comparative Queries in the Portal lets users compare measures side by side against given criteria.

- New Feature Summary
- Fixes
- Known Issues
- Upgrading to QAD BI Portal 3.4 from 3.3.x

New Feature Summary

Portal

- Comparative Queries allow users to do a side-by-side comparison of measures against time periods, or any other dimension values.
- Internationalization: The portal is now internationalized and can be configured for all 14 QAD supported languages.
- Fact Views created in the data warehouse are now visible and can be queried using the portal.

Modules

- Purchasing: New metrics added.
- EE Financials: Support for selected Enterprise Edition Financials metrics, reports and dashboards.
- Internationalization: Language translations have been added to all the modules, so table and column names when viewed in the portal display in the user's preferred language.
- A new, QAD-branded data warehouse designer that supports Unicode data loads.

Fixes

Component	Issue ID	Description
Portal	QBI-601	Data Security Model Builder - saved new model builder - name not saved
Portal	QBI-600	Internationalization - New Folder dialog buttons overlap when labels are longer than in English (for example, in German)
Portal	QBI-595	Translated data security model names not displaying properly
Portal	QBI-577	Query Editor: Advanced SQL shows extra line breaks
Portal	QBI-572	Parameter substitution incorrect in visual items
Portal	QBI-559	Wrap text on the column headers in grids
Portal	QBI-558	Invalid XML error on multi-series charts with measures that have a > character in their name

Component	Issue ID	Description
Portal	QBI-557	Report parameter supplied by drill in is not shown when the default value comes from a query
Portal	QBI-534	Dashboard with visual item with two parameters, and two parameter bars, not matching parameters properly, results in no data displayed
Portal	QBI-524	Charts take up more space in v3.3 compared to v3.2
Portal	QBI-523	Report Wizard causes error if unselect a field which happens to be a group by criteria
Portal	QBI-512	No scroll bar if Visual Item has many Actions
Portal	QBI-508	Editing an existing advanced query does not allow the user to go to the Next page
Portal	QBI-507	Advanced queries with parameters causes an error when creating report using the wizard
Portal	QBI-501	Change Password upon login dialog doesn't verify that entered & re-entered password actually match
Portal	QBI-472	Visual Item: allow reordering of measures on charts
Portal	QBI-470	Visual Item: uploaded images should retain their original size
Portal	QBI-469	Query Designer - sometimes the filters don't show up
Portal	QBI-467	multiple text areas on dashboard - font changes affect both
Portal	QBI-443	User Admin: Add User screen lets you enter Password values but doesn't use those values - disabled the password fields for User add operation.
Portal	QBI-416	Free form visual item allows rich text editor too - highlight links when put in place properly
Portal	QBI-411	Highlight links in dashboard text areas
Portal	QBI-331	Dashboard: Minimized objects stored that way in dashboard designer don't minimize to same location when viewing dashboard
Portal	QBI-328	Report Wizard: Can't set currency character to a Euro
Portal	QBI-217	Visual Item: Freeform item - when I select the text of a new item to edit it, the Selection Properties panel goes blank
Portal	QBI-452	Charts: filter inappropriate values from query on server, pass message to client
Portal	QBI-176	Allow for encryption of SQL Server password in server-config.xml
Metadata	QBI-597	dim_customer.salesperson1_code null when stage_customer had values for it
Metadata	QBI-596	Current and Previous YTD still wrong in daily_date_roll_qad
Metadata	QBI-581	Incorrect dependencies in HIST_LOAD_PERM caused permsup_om_invoice_line to have 0 rows even though perm_om_invoice_line has data
Metadata	QBI-544	load_idh_hist and load_SYSCOLUMNS lacking post- load File Action to delete all temporary files
Metadata	QBI-528	daily_date_roll_qad does not set week-in-year properly
Metadata	QBI-518	Make specific dimension views for dim_customer to make it easier to understand what kind of customer it is
Models	QBI-554	Constraints on data models are always created with a NotIn clause irrespective of what the user selects on the UI
Models	QBI-539	Model Builder ignoring EUL-visible flag on measures
Portal Standard Objects	QBI-606	Remove certain financials reports

Component	Issue ID	Description
Portal Standard Objects	QBI-549	Remove numbers from names of Portal Standard Items
Services	QBI-478	If tomcat started before SQL/Server, all connections in pool are invalid
Services	QBI-450	Add a standard format for date and time

Known Issues

- One of the Inventory tasks—stage_inv_transaction_con_cus5 Process—is missing from both the History and Daily load jobs. To correct this, prior to running the INITIAL_JOB_SETUP, Edit Tasks for both the HIST_INV_PROCESS_XXXXXXX and DAILY_INV_PROCESS_XXXXXXX jobs. After stage_inv_transaction_con_cus4 and before stage_inv_transaction_con_sup, add the task stage_inv_transaction_con_cus5 with the action Process. This task should not be grouped with those above or below it; it should have an Order that is higher than the con_cus4 task and lower than the con_sup task. Save and rebuild dependencies.
- The BI Portal application cannot run in the same instance of Tomcat as QXtend. (QBI-174)
- Visual items: drill-in using hierarchy the loading spinner displays forever. (QBI-181)
- Model changes in QAD BI DWD are not picked up unless a custom model is opened in the Portal, saved and closed. (QBI-127)
- fact_ar_invoice_history has the entered date value stored as a degenerate dimension value rather than as a dimensional join. This will change to a full dimension join in future releases of the BI data warehouse. Doing so might cause some queries to need to change in the future. (QBI-26)
- Now that the GUI supports translation of repository object names, the Export/Importobject functionality needs to support the import and export of the translated strings. (QBI-604)

Upgrading to QAD BI Portal 3.4 from 3.3.x

Preparation

1. Shut down Tomcat.
2. Back up the BI Portal database.

Note QAD BI Portal version 3.4 requires WhereScape RED or QAD BI DWD version 6.1 or later.

Upgrade Steps for QAD BI Portal

1. Move TOMCAT_HOME\webapps\your_bi_appname to TOMCAT_HOME\your_bi_appname.save33.
2. Unzip the new data.zip file into TOMCAT_HOME\webapps\your_bi_appname.
3. In TOMCAT_HOME\webapps\your_bi_appname\WEB-INF\config, copy the server-config.xml.default file to server-config.xml. Edit the file and set the connection information as it was set in your server configuration file, TOMCAT_HOME\your_bi_appname.save33\WEB-INF\config\server-config.xml file. Do not simply copy over your old file; there is a new section in the server-config.xml to support different languages that must be present. If you do not want to make all the languages available in the Add/Edit User dialog, you can remove the unnecessary ones from the list. However, at least one language must exist in the localeConfig section of the configuration file.

4. As there were no changes in BI Portal 3.4 to the LoggerConfig.properties file, you may either copy over the default and set up your log path; or just copy your old TOMCAT_HOME\your_bi_appname.save33\WEB- INF\config\LoggerConfig.properties file to TOMCAT_HOME\webapps\your_bi_appname\WEB-INF\config.
5. Copy over from your saved BI 3.3.x webapp directory any folders and documents containing content that you want to continue to access, such as:
   c. The documentation directory (if you had installed the Analytical Module documentation that comes with the metadata).
   d. The published directory (if you had installed the Excel spreadsheets for accessing cubes that comes with the metadata).
   e. Any images in the images directory.
   f. If you had customized a logo image for use in reports, copy that to the new TOMCAT_HOME\webapps\your_bi_appname\WEB-INF\classes\images directory.
6. Run the 3.3.x to 3.4 Portal upgrade script in your Portal database. Make sure that there are no errors in the output.
   a. In SQL Server Management Studio, choose File -> Open -> File. Navigate to your new TOMCAT_HOME\webapps\your_bi_appname\install\sqlserver directory and choose the v33tov34.sql script.
   b. Make sure the BI Portal database is selected as the target database.
   c. Click on Execute.
7. Start Tomcat.

Note on Password Encryption in the BI Portal

With this release of BI Portal, you can now encrypt the SQL Server password in both the server-config.xml file (which contains the connection information for the BI Portal database) and in the aw_sys_config table (which contains the connection information for the BI Data Warehouse). The encryption uses the Blowfish algorithm.

A command-line tool to encrypt the password named encpwd.bat is located in TOMCAT_HOME\webapps\your_bi_appname\cmdline. To run this, open a DOS window, change to the cmdline directory, and run:

```
encpwd.bat mypassword
```

The encrypted password will be printed on the screen. Copy this value and use it in the server-config.xml file as the value for the pwd. Also make sure that pwdEncrypted=true. (If you change back to using an unencrypted password value, make sure you set pwdEncrypted=false.)

Similarly, if you want to encrypt the password used by the Portal to connect to the Data Warehouse, use the encpwd.bat script to generate the encrypted password, then edit the value for the jdbcPassword in the aw_sys_config table, the DATASERVICE row, and set it to then encrypted value; make sure you add pwdEncrypted=true.

If you change either password, you must stop and restart Tomcat for the change to take effect.

Verification

Connect to your BI Portal. Click on the About link on the login screen and verify that the Version is 3.4 and the Build Number is BI3-TRUNK-JOB1-972.

Release Notes for Release 3.2.1

QAD Business Intelligence Version: 3.2.1

Date: June 6, 2010

Overview

This document contains information about the specific changes in the QAD BI 3.2.2 release. Most changes in this release impact the BI metadata that is used to build the data warehouse. Some changes to standardize names and fields used by the QAD BI Portal are also included.

Defect (metadata)

- Order for two different customers that share the same order number caused problem creating fact_om_order_history and fact_om_order_performance.
- dim_customer_sold_to.region_description had wrong datatype, causing problems in cube creation.
- stage_om_booking_transaction not considering item_number when building fact table, causing failure.
- stage_financial_date displays wrong month at end of financial year.
- fact_om_booking: Unit cost base, corp and trans were not showing up as measures in the portal query builder. Same was true for list price base, corp and trans.
- Unit_costs properly handled in base and trans values.
- Checks with null status in fact_ap_check were not showing as OPEN.
- fact_om_invoice: Unit Cost, List Price, Net Price Base, Corp, Trans were not showing up as measures in the portal query builder.
- Some fact tables do not have proper Business Display Names (End User Labels).
- Some dimension tables do not have proper Business Display Names (End User Labels).
- fact_om_order_history: Unit Cost, List Price, Net Price Base, Corp, Trans were not showing up as measures in the portal query builder.
- fact_om_shipment: Unit Cost, List Price, Net Price Base, Corp, Trans were not showing up as measures in the portal query builder.
- Bookings reversals have wrong effective date.
- AR invoice aging logic is only showing positive amounts, not credits.
- fact_ap_invoice_snapshot, fact_ar_invoice_history, fact_ar_invoice_snapshot - Credit Term Split Sequence should not be a measure in the portal query builder.
- fact_ap_voucher_history: several Amount Open bucket measures not showing up properly as measures in the portal query builder.
- fact_ar_invoice_history: Account Base not showing up properly as a measure in the portal query builder.
- work_ap_check_list has erroneous data source listed, causing data to load improperly.
- fact_om_order_history was not considering transactions that changed before the SALES_ORDER_HISTORY_DATE parameter value, even if they were back changed.
- fact_ap_voucher_history never receives closed vouchers (where the base amount is zero).
- fact_ar_invoice - open_amount_base was calculated incorrectly.
- Address field sizes were expanded to hold large address lengths, throughout the warehouse.
- fact_ap_check contained some checks that were really vouchers.

Defect (portal)

- Dashboard: dashboard view was incorrectly showing multiple scroll bars when the height of the dashboard was set to a smaller size than the items placed on it required.
- Report: Refreshing a query used by a report was not properly refreshing the queries parameters.
- Dashboard: Problems with multiple visual items using parameter bars would periodically cause. incorrect refresh behavior when the parameter bar changed, resulting in no data to display messages.
- Query Designer: use display names for fact tables in the drop down, rather than table names.

Enhancements

- Metadata: Fact table labels (Business Display Names, or EULs) made consistent across fact tables.
- Metadata: added cube creation job.