

# QAD Business Intelligence Release Notes

## September 2012

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 guide, and installation media.

<http://support.qad.com>

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# Release Notes for Current Release

**QAD Business Intelligence Version:** 3.7

**Date:** September 2012

## New Feature Summary

QAD BI 3.7 introduces the following new features:

- Adds the Plant Maintenance sub-module for the Enterprise Asset Management (EAM) module (Early Adopter version)
- Adds the Transportation Management (TM) module
- Upgrades the Data Warehouse Designer to version 6.6.2
- Extends the technical documentation for metadata across all modules in DWD
- Improves loading of additional modules
- Improves loading of additional sources
- Adds Enterprise Financials data to common dimensions
- Adds Throughput KPI to Capacity Planning and Control sub-module
- Includes BI 3.6.1/3.5.1 and BI 3.6.2/3.5.2 maintenance releases

## Upgrade Instructions

See the *QAD BI 3.7 Installation Guide* for the instructions to upgrade to QAD BI 3.7.

## Data Warehouse Tables Changed

The following section lists the Data Warehouse tables that have been changed, added, or deleted.

**Note** The tables on the Modified list may have been changed structurally. For example:

- Columns added or deleted
- Indexes added or deleted
- Changes made to business display names
- Changes to visibility of particular columns in the BI Portal
- Any combination of these modifications

## List of Tables Modified

### Common Module Modified Tables

- |                          |                            |                           |
|--------------------------|----------------------------|---------------------------|
| • dim_account            | • dim_shipment_date        | • stage_credit_term       |
| • dim_account_currency   | • dim_site                 | • stage_currency          |
| • dim_approver           | • dim_sub_account          | • stage_customer          |
| • dim_base_currency      | • dim_supplier             | • stage_customer_ar_list  |
| • dim_buyer              | • dim_transaction_currency | • stage_customer_bill     |
| • dim_channel            | • dim_transaction_type     | • stage_customer_bill1    |
| • dim_corporate_currency | • dim_unit_of_measure      | • stage_customer_dim_bill |
| • dim_cost_center        | • load_ct_mstr             | • stage_customer_dim_ship |

- dim\_credit\_term
- dim\_currency
- dim\_customer
- dim\_customer\_bill\_to
- dim\_customer\_ship\_to
- dim\_customer\_sold\_to
- dim\_discount\_cost\_center
- dim\_discount\_sub\_account
- dim\_due\_date
- dim\_effective\_date
- dim\_entered\_date
- dim\_entity
- dim\_item
- dim\_last\_receipt\_date
- dim\_location
- dim\_order\_date
- dim\_payment\_due\_date
- dim\_performance\_date
- dim\_project
- dim\_receipt\_date
- dim\_requestor
- dim\_required\_date
- dim\_service\_type
- dim\_ship\_to\_address
- load\_ctd\_det
- load\_cu\_mstr
- load\_ee\_Address
- load\_ee\_BudgetGroup
- load\_ee\_Company
- load\_ee\_CostCentre
- load\_ee\_Creditor
- load\_ee\_Currency
- load\_ee\_Debtor
- load\_ee\_Division
- load\_ee\_DomainProperty
- load\_ee\_Domains
- load\_ee\_DomainSharedSet
- load\_ee\_PaymentCondition
- load\_ee\_PaymentGroup
- load\_ee\_Project
- load\_ee\_SharedSet
- load\_en\_mstr
- load\_pj\_mstr
- load\_tr\_hist
- perm\_transaction\_hist
- permsup\_transaction\_hist
- stage\_business\_relation
- stage\_cost\_center
- stage\_customer\_dim\_sold
- stage\_customer\_invoice\_list
- stage\_customer\_master
- stage\_customer\_sales\_list
- stage\_customer\_ship
- stage\_customer\_ship1
- stage\_customer\_sold
- stage\_customer\_sold1
- stage\_date\_qad
- stage\_domain
- stage\_eam\_entity
- stage\_ee\_account
- stage\_ee\_address
- stage\_ee\_ic\_creditor
- stage\_ee\_ic\_debtor
- stage\_ee\_project\_status
- stage\_entity
- stage\_project
- stage\_site
- stage\_sub\_account
- stage\_supplier
- stage\_tr\_hist\_list
- stage\_unit\_of\_measure1

#### Financials Module Modified Tables

- dim\_ap\_transaction\_type
- dim\_ar\_transaction\_type
- dim\_daybook
- dim\_layer
- extract\_ap\_master
- extract\_ap\_voucher\_master
- fact\_ap\_invoice\_snapshot
- fact\_ap\_voucher
- fact\_ap\_voucher\_history
- fact\_ar\_invoice
- fact\_ar\_invoice\_history
- fact\_ar\_invoice\_snapshot
- fact\_ar\_payment
- fact\_gl\_balance
- fact\_gl\_transaction
- load\_ap\_transaction\_type
- load\_ar\_transaction\_type
- load\_ee\_CompanySharedSet
- load\_ee\_Journal
- load\_ee\_Layer
- load\_ee\_Period
- load\_vo\_mstr
- perm\_ap\_master
- perm\_ee\_posting
- perm\_ee\_posting\_line
- stage\_ap\_transaction\_type
- stage\_ar\_transaction\_type
- stage\_ee\_credit\_invoice
- stage\_ee\_credit\_invoice\_move
- stage\_ee\_posting
- stage\_gl\_balance\_close03
- stage\_gl\_balance\_close04
- stage\_gl\_balance\_ptd
- stage\_gl\_balance\_qtd
- stage\_gl\_balance\_ytd
- stage\_gl\_balance2
- stage\_gl\_transaction\_budget
- stage\_gl\_transaction1
- stage\_layer
- stage\_se\_ap\_snap4
- work\_ap\_change\_list1

#### Operations Module Modified Tables

- dim\_po\_line\_status
- dim\_po\_line\_type
- extract\_inv\_trans\_hist\_cons
- stage\_inv\_bal\_mth\_trans1
- stage\_inv\_bal\_mth\_trans2
- stage\_inv\_bal\_revalue2
- stage\_op\_transaction2
- stage\_po\_order\_hist
- stage\_po\_order\_hist\_initial

- extract\_inv\_transaction\_hist
- extract\_op\_transaction\_hist
- extract\_po\_transaction\_hist
- fact\_inv\_mth\_balance
- fact\_inv\_transaction
- fact\_op\_transaction
- fact\_po\_order\_history
- load\_prh\_hist
- load\_wr\_route
- perm\_op\_hist
- stage\_inv\_bal\_item\_list
- stage\_inv\_bal\_mth\_current
- stage\_inv\_bal\_mth\_current4
- stage\_inv\_bal\_mth\_date
- stage\_inv\_bal\_mth\_date1
- stage\_inv\_bal\_mth\_date2
- stage\_inv\_bal\_mth\_list
- stage\_inv\_bal\_mth\_trans
- stage\_inv\_mth\_balance
- stage\_inv\_mth\_balance\_hist\_calc
- stage\_inv\_mth\_balance1
- stage\_inv\_mth\_end\_cst
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_transaction\_con\_cus3
- stage\_inv\_transaction\_con\_cus4
- stage\_inv\_transaction1
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_trx\_chg\_mths1
- stage\_op\_tr\_hist\_rjct\_wo
- stage\_op\_tr\_hist\_rjct\_wo1
- stage\_op\_trans\_scrapi
- stage\_op\_transaction
- stage\_op\_transaction\_merge
- stage\_op\_transaction0
- stage\_op\_transaction1
- stage\_po\_order\_hist\_initial1
- stage\_po\_order\_hist\_initial3
- stage\_po\_order\_hist\_initial4
- stage\_po\_order\_hist\_initial5
- stage\_po\_order\_hist\_initial6
- stage\_po\_order\_hist\_initial7
- stage\_po\_order\_hist1
- stage\_po\_order\_hist2
- stage\_po\_order\_hist3
- stage\_po\_order\_hist4
- stage\_po\_order\_hist5
- stage\_po\_order\_snap1
- stage\_po\_order\_snap3
- stage\_po\_order\_snapshot
- work\_inv\_change\_hist\_list
- work\_inv\_change\_list
- work\_inv\_change\_list1

#### Order Management Module Modified Tables

- extract\_om\_transaction\_hist
- fact\_om\_booking
- fact\_om\_shipment
- load\_idh\_hist
- load\_ih\_hist
- stage\_om\_ar\_master\_extract
- stage\_om\_booking
- stage\_om\_booking\_previous
- stage\_om\_booking\_transaction
- stage\_om\_booking\_transaction1
- stage\_om\_booking1
- stage\_om\_invoice\_line\_list
- stage\_om\_invoice\_line\_ranged
- stage\_om\_invoice\_transaction
- stage\_om\_invoice\_transaction1
- stage\_om\_invoice1
- stage\_om\_order
- stage\_om\_order\_inv\_line
- stage\_om\_order\_inv\_line1
- stage\_om\_order\_line
- stage\_om\_order\_line\_all
- stage\_om\_order\_snap
- stage\_om\_order\_snap1
- stage\_om\_order\_snap3
- stage\_om\_order1
- stage\_om\_order2
- stage\_om\_order3
- stage\_om\_shipment1

#### Tables Added to Existing Modules

##### Common Module Added Tables

- dim\_cal\_int\_end\_date
- dim\_cal\_int\_start\_date
- dim\_calendar\_interval
- dim\_statutory\_currency
- load\_ee\_Address
- load\_ee\_AddressType
- load\_ee\_CompanyProperty
- load\_ee\_Contact
- load\_ee\_CorporateGroup
- load\_ee\_Country
- load\_ee\_County
- stage\_business\_relation
- stage\_calendar\_interval
- stage\_calendar\_interval\_financial
- stage\_calendar\_interval\_month
- stage\_calendar\_interval\_week
- stage\_date\_qad5
- stage\_eam\_date\_qad4
- stage\_eam\_domain
- stage\_eam\_entity
- stage\_eam\_site
- stage\_ee\_address
- stage\_ee\_payment\_group
- stage\_ee\_project
- stage\_ee\_project\_group
- stage\_ee\_project\_status
- stage\_ee\_purchase\_type
- stage\_ee\_sub\_account
- stage\_ee\_supplier
- stage\_ee\_supplier\_type
- stage\_entity1
- stage\_se\_cost\_center
- stage\_se\_credit\_term

- load\_ee\_CreditorType
- load\_ee\_DebtorCreditRating
- load\_ee\_DebtorType
- load\_ee\_Lng
- load\_ee\_PaymentConditionStaged
- load\_ee\_ProjectGroup
- load\_ee\_ProjectStatus
- load\_ee\_PurchaseType
- load\_ee\_Reason
- load\_ee\_State
- load\_ee\_Usr
- stage\_ee\_budget\_group
- stage\_ee\_contact
- stage\_ee\_cost\_center
- stage\_ee\_credit\_term
- stage\_ee\_currency
- stage\_ee\_customer
- stage\_ee\_customer\_credit\_rating
- stage\_ee\_customer\_type
- stage\_ee\_entity
- stage\_ee\_invoice\_status
- stage\_se\_currency
- stage\_se\_customer
- stage\_se\_ee\_cost\_center
- stage\_se\_ee\_entity
- stage\_se\_ee\_sub\_account
- stage\_se\_entity
- stage\_se\_project
- stage\_se\_sub\_account
- stage\_se\_supplier
- stage\_site1

### Financials Module Added Tables

- dim\_accounting\_period
- dim\_ee\_invoice\_status
- load\_ee\_JournalGroup
- stage\_accounting\_period
- stage\_ee\_accounting\_period

### Operations Module Added Tables

- stage\_inv\_mth\_end\_cst
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_trx\_chg\_mths1

## Enhancements

**Table 1** BI 3.7 Enhancements

Component	QAD Issue	Description
Metadata (Multi-Module)	QBI-800	As part of running INITIAL_JOB_SETUP, the very last step in that procedure should be to back up the parameter table with a copy of the parameters as they were set for the initial setup.
	QBI-987	The setup_initial_job() does not correctly chain jobs when the source parameter accidentally begins with a space, and it gives you no errors/warnings.
	QBI-1600	The setup_initial_job() should not delete jobs for not-installed modules; but it should have the option to not include them in the DAILY/HIST Job Chain parameters.
	QBI-2066	Load tables not in any PREPROCESS_TRUNCATE job (latest build - build 342).
Metadata (Order Management)	QBI-768	Remove SALES_LOAD_DAYS and SALES_LOAD_LOOKBACK_DAYS parameters.
Portal	QBI-517	Dimension "folder" not discernible from query definition.
	QBI-604	Internationalization—add support for export/import of translations when objects are exported/imported.
	QBI-802	Added some more currency symbols in Report Designer.
	QBI-1766	Added a scroll bar to Link for Reports and Actions Visual Items so that you can manage content that is below visible display in window.
Portal Standard Objects (Inventory, Purchasing)	QBI-628	Std items need to be created for purchasing and inventory modules.
Portal Standard Objects (Purchasing)	QBI-579	Purchasing Gap task—Create Visualizations for PO performance and add to dashboard.

## Fixes

**Table 2** BI 3.7 Fixes (1 of 3)

Component	QAD Issue	Description
ETL performance	QBI-614	The daily_date_roll_qad is very slow when current week spans year boundary.
	QBI-635	STAGE_OM_INVOICE1 taking exceptionally long to load
Installation	QBI-1429	INITIAL_JOB_SETUP can add non-existent POSTPROCESS jobs to job order parameters.
Metadata (Capacity Plan)	QBI-1778	fact_op_transaction—transaction_number currently flagged as a measure, but should not be.
Metadata (Financials SE)	QBI-2131	fact_ap_invoice_snapshot not deleting interim records.
	QBI-729	Research and correct budget amount measures in fact_gl_balance.
Metadata (Inventory)	QBI-543	Inventory balances not matching Inventory transactions.
	QBI-715	Updated 3.5 Design Specification to include logic from lnd_det (Location Detail) tables.
	QBI-1694	Inventory—fact_inv_mth_balances does not properly capture the unit_cost of items, leaving unit_cost of 0, so although the end of month quantity can be > 0, the value = 0 (incorrectly).
	QBI-1802	Inventory—fact_inv_mth_balances does not properly set the end of month qoh balance so all the calculations for every month are not coming out like they should.
	QBI-1893	New parameter INV_HISTORY_DATE should be added to the parameter list and populated by INITIAL_JOB_SETUP on install.
	QBI-1980	The Inventory module job does not sequence some of the last post load tasks properly, instead running them all at the same time.
	QBI-1985	New Parameter INV_HISTORY_DATE should be added to the parameter list and populated by INITIAL_JOB_SETUP on install. (r7m)
	QBI-1986	fact_inv_mth_balance should not include kit items in the transaction portion of the change calculation for a given month. We may also need to not include GIT (goods in transit).
	QBI-2102	stage_inv_bal_revalue2 is not source system specific so it will grab all records in the fact every time it runs.
	QBI-2107	3.6 column transformation change for ship_type in stage_inv_transaction1 is causing downstream staging tables to not properly calculate qoh changes and balances.
	QBI-2125	Fact_inv_mth_balance shows value_issued_base as negative values but shows the quantity_issued_base as positive. In stage_inv_mth_balance1 we are setting the quantity_issued amount to the ABS (absolute) value so both negative and positive amounts are pos.
Metadata (Multi-Module)	QBI-711	load_tr_hist picks up new records on daily loads, even if there are no new records in the source system
	QBI-717	daily_date_roll_qad should parameterize the date it uses to set Current/Previous/Lastyear/No (GetDate() is hard coded 3 times in procedure)
	QBI-1275	stage_unit_of_measure1 missing join constraints
	QBI-1775	Scheduled Jobs for CUBES do not have the "submit_next_chained_job()" task so they can be automatically part of the DAILY job chain.
Metadata (Operations)	QBI-1704	Truncation of load tables combined with placement of load tables ensures no data gets into fact_inv_mth_balance on daily runs. Need to load the inv_transaction types earlier.
	QBI-2145	The Days On Hand Calculation shown in the Inventory Dashboard is inconsistent with the Inventory Turns calculation.

**Table 2** BI 3.7 Fixes (2 of 3)

Component	QAD Issue	Description
	QBI-2146	The calculation of throughput in the Capacity Planning and Control - Production Lines Dashboard uses "Active Days" (reported time) not "Scheduled Days" from the shop calendar.
Metadata (Order Management)	QBI-276	GL Calendar needed for Order Management.
	QBI-631	All extended prices in fact_om_order_history are calculated based on the open_amount, not the order_amount. Customers are unhappy about this and we need to determine if our logic is correct or not.
	QBI-632	QMI (2011 EE) Shipment Transaction Report not matching BI OM Shipment Fact
	QBI-1553	stage_om_order3 not matching dim_account - error in outer join.
	QBI-1699	fact_om_shipment references the wrong source columns for several of it's columns including most importantly shipment date. Need to correct for fact_om_shipment to work properly.
	QBI-1996	stage_om_invoice_line_range fails in Chinese environment
	QBI-2067	3.5.1 and 3.6.1 maintenance releases have a bug in historic load logic for OM table fact_om_order_history. This bug is in stage_om_order1
	QBI-2068	fact_om_order_history sometimes will have CLOSED orders that are the most recent/current version of the record, but will not be shown as most recent/current and are then showing up in fact_om_order as OPEN even though they are CLOSED.
	QBI-2092	The 3.5.1 patch had a couple of rank over clauses that did not rank transaction_date correctly and needs to be corrected.
Metadata (Order Management, Purchasing)	QBI-2101	Need SALES_LOOKBACK_DAYS and PO_LOOKBACK_DAYS parameters
Metadata (Purchasing)	QBI-750	Remove extended_cost_ from fact_po_order_history - duplicates open_amount_
	QBI-771	fact_po_order_history storing incorrect last receipt date
	QBI-2124	Our PO Snapshot and OM snapshot tables have a problem in stage_po_order_snap1 and stage_om_order_snap1 where if the last day of a month and last day of a week are the same, only the Monthly record values are retrieved.
Portal	QBI-468	Text area on dashboard— no title causes problems.
	QBI-533	Portal gets sluggish. Must close browser and restart.
	QBI-594	In queries, "AND" and "OR" not translated.
	QBI-790	BI Portal cannot display plus sign in visual items due to a known problem in Flex.
	QBI-1314	Check boxes not displaying properly in Security tab for object in repository browser.
	QBI-1388	Ops-Capacity Planning Sub-module—Performance Ratio truncating or rounding down.
	QBI-1891	Visual Items—when creating a heat map, the range at the bottom does not change when the different type of heat map is selected.
	QBI-1913	Visual Items—creating Collaboration/Message type of visual item, in the right-side Edit pane, the heading says "essage" instead of "Message".
	QBI-2136	Report Browser, Report Links, and Run Report page title do not show translated names.
Portal Standard Objects (Capacity Planning)	QBI-1430	QAD Standard queries folder includes a "Fran" folder.
Portal Standard Objects (Fin EE, Fin SE)	QBI-1427	CFO Dashboard Template missing from Financials module portal objects.
Portal Standard Objects (Inventory)	QBI-795	Issues and questions regarding the Drop Down parameters list on the Inventory Item Management dashboard.

**Table 2** BI 3.7 Fixes (3 of 3)

<b>Component</b>	<b>QAD Issue</b>	<b>Description</b>
	QBI-1244	Inventory Management Dashboard—miscellaneous usability issues.
	QBI-1245	Inventory Management Dashboard—Questions about Nettable vs Non-Nettable visual item.
	QBI-1246	Inventory Management Dashboard—Inventory On Hand by Product Line does not show any data.
	QBI-1247	Inventory Management Dashboard—Inventory On Hand by Site does not show any data.
	QBI-1248	Inventory Management Dashboard—Inventory OH Trend Parameter only has a single data point, not a trend.
	QBI-1251	Inventory Management Dashboard—Parameters for Inventory On Hand Report should be consistent with other reports.
	QBI-1253	Inventory Management Dashboard—Top 10 Average Days OH by Product Line does not display any data.
	QBI-1254	Inventory Management Dashboard—Top 10 Average Days OH by Site does not display any data.
	QBI-1255	Inventory Management Dashboard—Inventory Transaction reports do not display data.
	QBI-1256	Inventory Management Dashboard—Inventory Trends reports do not display data.
	QBI-1257	Inventory Management Dashboard—Inventory Turnover does not display any data and has not parameters to change.
Portal Standard Objects (Purchasing)	QBI-779	Purchasing Dashboard—Top 10 Supplier by Spend visual item contains minor typo in the title
	QBI-780	Purchasing Dashboard—The Reports visual item is not large enough to display the report titles
	QBI-781	Purchasing Dashboard—Year parameter visual item does not reposition correctly when drop-down is displayed
	QBI-783	Purchasing Dashboard—The query for the Cash Requirements Forecast cannot be found
	QBI-784	Purchasing Dashboard—Trouble displaying data in Missed Delivery Detail report
	QBI-786	Purchasing Dashboard—Open PO Cash Commitments by Due Date Summary and "For Year" reports have misc problems
	QBI-787	Purchasing Dashboard—PO Delivery Performance Summary reports have misc problems
	QBI-788	Purchasing Dashboard—Supplier Spend Ranking - Historical report does not work

# Release Notes for Releases 3.6.2 and 3.5.2

**QAD Business Intelligence Version:** 3.6.2 and 3.5.2

**Date:** July 2012

QAD BI 3.6.2 and 3.5.2 address the following issues:

- fact\_inv\_mth\_balance has been corrected so that it handles partial quantities.
- fact\_om\_order\_history has been corrected to ensure CLOSED orders are the most recent/current version of the record, so that the CLOSED status should also show properly in fact\_om\_order.

## Fixes

QAD BI 3.6.2 and 3.5.2 include all fixes from 3.6.1 and 3.5.1, respectively, and in addition address:

Component	QAD Issue	Releases	Description
Metadata	QBIS-51	BI 3.5.2, BI 3.6.2	Inventory - fact_inv_mth_balance is now able to handle partial quantities; the numeric type for the columns has been corrected.
Metadata	QBI-2085, QBI-2091	BI 3.5.2, BI 3.6.2	Order Management - the order on the rank over clause is not set properly for the transaction_date, resulting in incorrect fact_om_order_history records.
Metadata	QBI-2087, QBI-2088	BI 3.5.2, BI 3.6.2	Order Management - update_stage_om_invoice_l_rng now uses the DATE_EARLIEST_POSSIBLE and DATE_LATEST_POSSIBLE parameters instead of hard-coding dates using English month names, to avoid issues in non-English environments.
Metadata	QBI-2068, QBI-2089, QBI-2090	BI 3.5.2, BI 3.6.2	Order Management - fact_om_order_history sometimes will have CLOSED orders that are the most recent/current version of the record, but will not be shown as most recent/current and are then showing up in fact_om_order as OPEN even though they are CLOSED.
Metadata	QBI-2086	BI 3.6.1	Financials - load_vo_mstr Where clause corrected usage of AP_PROCESS_DAYS and AP_CHECK_PROCESS_DAYS parameters.

## Data Warehouse Tables Changed

The following section lists the Data Warehouse tables that have been changed, added, or deleted.

**Note** The tables on the Modified list may have been changed structurally. For example:

- Columns added or deleted
- Indexes added or deleted
- Changes made to business display names
- Changes to visibility of particular columns in the BI Portal
- Any combination of these modifications

### List of Tables Modified for BI 3.6.2

#### Common Module

- load\_tr\_hist
- perm\_transaction\_hist
- permsup\_transaction\_hist
- stage\_tr\_hist\_list

#### Financials Module

- load\_vo\_mstr

## Operations Module

- extract\_inv\_trans\_hist\_cons
- extract\_inv\_transaction\_hist
- extract\_po\_transaction\_hist
- extract\_op\_transaction\_hist
- fact\_inv\_mth\_balance
- fact\_inv\_transaction
- fact\_op\_transaction
- perm\_op\_hist
- stage\_inv\_bal\_mth\_current
- stage\_inv\_bal\_mth\_current4
- stage\_inv\_bal\_mth\_date
- stage\_inv\_bal\_mth\_date1
- stage\_inv\_bal\_mth\_date2
- stage\_inv\_bal\_mth\_list
- stage\_inv\_bal\_mth\_trans
- stage\_inv\_bal\_mth\_trans1
- stage\_inv\_bal\_mth\_trans2
- stage\_inv\_mth\_balance
- stage\_inv\_mth\_balance\_hist\_calc
- stage\_inv\_mth\_balance1
- stage\_inv\_transaction1
- stage\_inv\_transaction\_con\_cus3
- stage\_inv\_transaction\_con\_cus4
- stage\_op\_tr\_hist\_rjct\_wo
- stage\_op\_trans\_scrapi
- stage\_op\_transaction
- stage\_op\_transaction\_merge
- stage\_op\_transaction\_merge
- stage\_op\_transaction\_merge
- stage\_op\_transaction0
- stage\_op\_transaction1
- stage\_op\_transaction2
- stage\_po\_order\_hist\_initial4
- stage\_po\_order\_hist\_initial5
- stage\_po\_order\_hist\_initial6
- work\_inv\_change\_hist\_list
- work\_inv\_change\_list
- work\_inv\_change\_list1

## Order Management Module

- extract\_om\_transaction\_hist
- fact\_om\_booking
- fact\_om\_shipment
- stage\_om\_booking
- stage\_om\_booking\_max\_tran
- stage\_om\_invoice\_line\_list
- stage\_om\_order\_snap3
- stage\_om\_booking\_previous
- stage\_om\_booking\_transaction
- stage\_om\_booking\_transaction1
- stage\_om\_invoice\_transaction
- stage\_om\_invoice\_transaction1
- stage\_om\_order\_snap
- stage\_om\_order
- stage\_om\_order1
- stage\_om\_order2
- stage\_om\_order3
- stage\_om\_invoice\_line\_ranged
- stage\_om\_order\_snap1

### List of Tables Added for BI 3.6.2

- stage\_inv\_mth\_end\_cst
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_trx\_chg\_mths1

### List of Tables Deleted for BI 3.6.2

No tables deleted for BI 3.6.2 upgrade.

### List of Tables Modified for BI 3.5.2

**Note** The 3.5.2 patch includes all changes from the 3.5.1 patch. Even if you already installed the 3.5.1 patch, this reloading of application changes should not affect operation, but does mean that if any of the tables modified in 3.5.1 or 3.5.2 have customizations, you will need to reapply all those customizations. Follow the upgrade instructions carefully.

- extract\_inv\_trans\_hist\_cons
- extract\_inv\_transaction\_hist
- extract\_om\_transaction\_hist
- extract\_po\_transaction\_hist
- fact\_inv\_mth\_balance
- fact\_inv\_transaction
- fact\_om\_booking
- fact\_om\_shipment
- stage\_inv\_bal\_mth\_trans1
- stage\_inv\_bal\_mth\_trans2
- stage\_inv\_bal\_revalue1
- stage\_inv\_mth\_balance
- stage\_inv\_mth\_balance\_hist\_calc
- stage\_inv\_mth\_balance1
- stage\_inv\_transaction\_con\_cus3
- stage\_inv\_transaction\_con\_cus4
- stage\_om\_order1
- stage\_om\_order2
- stage\_om\_order3
- stage\_om\_order\_snap
- stage\_om\_order\_snap1
- stage\_om\_order\_snap3
- stage\_po\_order\_hist\_initial4
- stage\_po\_order\_hist\_initial5

- load\_tr\_hist
- perm\_transaction\_hist
- permsup\_transaction\_hist
- stage\_inv\_bal\_item\_list
- stage\_inv\_bal\_mth\_current
- stage\_inv\_bal\_mth\_current4
- stage\_inv\_bal\_mth\_date
- stage\_inv\_bal\_mth\_date1
- stage\_inv\_bal\_mth\_date2
- stage\_inv\_bal\_mth\_list
- stage\_inv\_bal\_mth\_trans
- stage\_om\_booking
- stage\_om\_booking\_max\_tran
- stage\_om\_booking\_previous
- stage\_om\_booking\_transaction
- stage\_om\_booking\_transaction1
- stage\_om\_invoice\_line\_list
- stage\_om\_invoice\_line\_ranged
- stage\_om\_invoice\_transaction
- stage\_om\_invoice\_transaction1
- stage\_om\_order
- stage\_po\_order\_hist\_initial6
- stage\_po\_order\_snap1
- stage\_po\_order\_snap3
- stage\_po\_order\_snapshot
- stage\_tr\_hist\_list
- stage\_tr\_hist\_list
- stage\_unit\_of\_measure3
- work\_inv\_change\_hist\_list
- work\_inv\_change\_list
- work\_inv\_change\_list1

### List of Tables Added for BI 3.5.2

- dim\_snapshot\_period\_type
- load\_snapshot\_period\_type
- stage\_inv\_mth\_end\_cst
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_trx\_chg\_mths1

### List of Tables Deleted for BI 3.5.2

No tables deleted for BI 3.5.2 upgrade.

## Upgrade to 3.6.2 from 3.6 or 3.6.1

### Preparation

- 1 Plan for a couple of hours of down time.
- 2 Ensure that there are no loads currently in progress. All jobs must be completed.
- 3 Put all scheduled jobs On Hold until the upgrade is complete. Shut down the scheduler.
- 4 Take a backup of the current warehouse database.
- 5 Before you begin, make note of the following:
  - Note any custom DAILY\_LOAD\_JOBxxx jobs that appear after the final ROLLUP jobs; for example, DAILY\_PO\_ROLLUP or DAILY\_SALES\_ROLLUP if you do not have the Purchase Orders module installed. If you have neither Sales nor Purchase Order processing, note any custom jobs that might be after the final SNAPSHOT jobs: \_\_\_\_\_
  - Note any custom HIST\_LOAD\_JOBxxx jobs that appear after the standard ROLLUP or SNAPSHOT jobs: \_\_\_\_\_

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

### Upgrade Steps for QAD BI Metadata

- 6 Unzip the metadata for the Common module and any other modules you have installed.

**Note** Because the metadata files are now segregated by module, it is only necessary to install the modules that are needed.

- Perform the Common upgrade first. The other upgrades can be done in any order.
- All users need to run the Common metadata upgrade application.
- If you process any of the Order Management (Sales) fact\_om\_\* tables, install the Order Management (OM) upgrade application.
- If you process Inventory and/or Purchase Order tables, install the Operations module upgrade application.
- If you process any Financial tables, install the Financials module upgrade application.

7 Log in to Setup Administrator.

8 Choose Tools|Start Logging. Select a name and location for your log file and save.

9 Load the Common Module Upgrade Application as follows:

- a Set your application directory to the new metadata/common folder.
- b Load application upgradeCom by right-clicking on the file and choosing Install Application.
- c From the drop-down list, select the ODBC DSN for your DWD instance.
- d The system prompts you to proceed. Click OK.

**Note** You can cancel the installation here to review the list of new and modified objects. To continue with the load, right-click in the window and choose Proceed with Load Application.

- e The next dialog box is Application Load Properties. Verify that the default values are correct. Make any changes if necessary:
  - On the left, select Dimension. On the right, click on the box next to *Existing Dimension objects will be* and select Altered.
  - On the left, select Dimension View. On the right, click on the box next to *Existing Dimension View objects will be* and select Recreated.
  - On the left, select Stage Table. On the right, click on the box next to *Existing Stage table objects will be* and select Recreated.
  - On the left, select Permanent Stage Table. On the right, click on the box next to *Existing Permanent Stage table objects will be* and select Altered.
  - On the left, select Fact Table. On the right, click on the box next to *Existing Fact table objects will be* and select Altered.
  - Click OK.

10 Repeat for any other modules that must be upgraded.

- **Order Management.** Change the Application Directory to the metadata/order\_management subdirectory and install application upgradeOM.
- **Operations.** Change the Application Directory to the metadata/operations subdirectory and install application upgradeOps.
- **Financials.** Change the Application Directory to the metadata/financials subdirectory and install application upgradeFin.

**Note** The upgrade application installations will take some time as the load process alters and re-creates various objects.

11 Start the Scheduler. Make sure all jobs are still suspended.

- 12 If the upgrade affected any customized tables, reapply your customizations. For a list of new and modified tables, see “Data Warehouse Tables Changed” on page 9.
- 13 If there were any customizations previously added to any of the modified jobs, update the job to reinclude those extra parts. You can double check what was in the job by looking at the newly renamed <jobname>\_1. The jobs that changed in this release are:
- PREPROCESS\_COMMON\_LOADS
  - PREPROCESS\_COMMON\_TRUNCATE
  - PREPROCESS\_OP\_LOAD
  - PREPROCESS\_OP\_TRUNCATE
  - DAILY\_OP\_PERM\_EXTRACT
  - HIST\_OP\_PERM\_EXTRACT
  - DAILY\_OP\_INV\_PROCESS\_CHAINED
  - HIST\_OP\_INV\_PROCESS\_CHAINED
  - HIST\_OM\_PROCESS\_CHAINED
- 14 Check the values of the TR\_HIST\_DATE\_MAX\_Sxx parameters for each source. If necessary, increase TR\_HIST\_PROCESS\_DAYS from the default value of 3 days. The number of Process Days must be such that the TODAY – earliest TR\_HIST\_DATE\_MAX\_Sxx is less than the TR\_HIST\_PROCESS\_DAYS. There are also several new parameters to control how the BI system handles the rollover of the tr\_trnbr:
- **TR\_HIST\_PROCESS\_DAYS.** This is the number of look-back days when extracting data from tr\_hist. The records being extracted are records where tr\_trnbr is greater than the highest transaction\_number records already extracted for that source, except after tr\_trnbr rollover, when newer transactions may have smaller trnbrs than older transactions. The BI DW must also take into account the transaction date in order to find the lower-numbered transactions that are actually new. This parameter says to extract from the ERP transactions entered within the last X days. If the number of days since the TR\_HIST\_DATE\_MAX\_Sxx is greater than the TR\_HIST\_PROCESS\_DAYS parameter, a task that checks this during the run will fail and indicate this number needs to be increased. The default value is 3.
  - **TR\_HIST\_MAX\_VALUE.** This is the maximum number allowed for the tr\_hist.tr\_trnbr field, or in other words, the number after which the tr\_trnbr will roll over and start at the first available low number. The default value is 99999999. If the tr\_sq01 sequence is set to a different maximum value, enter that here.
  - **TR\_HIST\_PRE\_ROLLOVER\_COUNT.** This is the number of records that would typically be in three days worth of data to ensure readiness for tr\_hist.tr\_trnbr rollover. Once the tr\_trnbr for a source is detected to be within TR\_HIST\_PRE\_ROLLOVER\_COUNT of TR\_HIST\_MAX\_VALUE, the BI system sets the TR\_HIST\_TRAN\_MAX\_Sxx value for the source to 0. This will force the tr\_hist extraction to scan the whole table for records that have been processed within the last TR\_HIST\_PROCESS\_DAYS. The default value is 5000.
  - **TR\_HIST\_PCT\_OF\_MAX\_REF.** This is the percent of the TR\_HIST\_MAX\_VALUE to use as a reference point to look for new low-numbered transactions when dealing with the rollover. The default value is 50. When this value is 50, you will search the transactions with numbers less than 50% of the TR\_HIST\_MAX\_VALUE for the highest number with a transaction date within the processing window.
- 15 If you already installed the BI 3.6.1 patch, skip ahead to Step 16. If you are upgrading directly from BI 3.6, run the Upgrade jobs for the tr\_hist.tr\_trnbr roll-over issue for each module you have installed:

- **Common Module.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_COMMON job to update the permsup\_transaction\_hist table to include the transaction date and to seed the TR\_HIST\_DATE\_MAX values for each source.
- **Order Management.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_OM job to update the fact\_om\_booking table to include the transaction date.
- **Operations.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_OP job to update the fact\_op\_transaction table to include the transaction date.

16 Run the upgrade job for BI 3.6.2:

- a Run the UPGRADE\_36\_TO\_362\_QBI\_2068 job.
- b Set the JOB\_CHAINING\_ENABLED parameter back to Y.

17 Set the INV\_PROCESS\_DAYS to 50000 to ensure that all data is reprocessed. Then run the DAILY loads.

**Note** The daily load will take longer than normal, as all inventory transactions are being reprocessed to correct errors.

18 After the daily load completes, set the INV\_PROCESS\_DAYS to a small value, such as 2, and resume normal processing.

**Note** These steps reload the fact\_inv\_transaction table with data as of the current day. Depending on the amount of process days, when the DAILY update resumes, it will reference all records from that fact table while trying to update the fact\_inv\_mth\_balances table. Longer processing times are expected until the current date, minus the number of process days, exceeds the dss\_update\_time timestamp value from the reload. Once that time period has passed, the run times should improve substantially. Please be aware that you may experience at least one day of long processing time on the daily load.

## Upgrade to 3.5.2 from 3.5 or 3.5.1

### Preparation

- 1 Plan for a couple of hours of down time.
- 2 Ensure that there are no loads currently in progress. All jobs must be completed.
- 3 Put all scheduled jobs On Hold until the upgrade is complete. Shut down the scheduler.
- 4 Take a backup of the current warehouse database.
- 5 Before you begin, make note of the following:
  - Note any custom DAILY\_LOAD\_JOBxxx jobs that appear after the final ROLLUP jobs; for example, DAILY\_PO\_ROLLUP or DAILY\_SALES\_ROLLUP if you do not have the Purchase Orders module installed. If you have neither Sales nor Purchase Order processing, note any custom jobs that might be after the final SNAPSHOT jobs: \_\_\_\_\_
  - Note any custom HIST\_LOAD\_JOBxxx jobs that appear after the standard ROLLUP or SNAPSHOT jobs: \_\_\_\_\_

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

## Upgrade Steps for QAD BI Metadata

- 6 Unzip the metadata for the BI 3.5.2 Upgrade.
- 7 Log in to Setup Administrator.
- 8 Choose Tools|Start Logging. Select a name and location for your log file, then save.
- 9 Load the BI 3.5.2 Upgrade Application as follows:
  - a Set the application directory to the new metadata folder.
  - b Load application upgradeBI by right-clicking on the file and choosing Install Application.
  - c From the drop-down list, select the ODBC DSN for your DWD instance.
  - d The system prompts you to proceed. Click OK.
  - e You can always cancel here to review the list of new and modified objects. To continue with the load, right-click in the window and choose Proceed with Load Application.
  - f The next dialog box is Application Load Properties. Verify that the default values are correct. Make any changes if necessary:
    - On the left, select Dimension. On the right, click on the box next to *Existing Dimension objects will be* and select Altered.
    - On the left, select Dimension View. On the right, click on the box next to *Existing Dimension View objects will be* and select Recreated.
    - On the left, select Stage Table. On the right, click on the box next to *Existing Stage table objects will be* and select Recreated.
    - On the left, select Permanent Stage Table. On the right, click on the box next to *Existing Permanent Stage table objects will be* and select Altered.
    - On the left, select Fact Table. On the right, click on the box next to *Existing Fact table objects will be* and select Altered.
    - Click OK.

**Note** The upgrade application installations will take some time as the load process alters and re-creates various objects.

- 10 If the upgrade affected any customized tables, reapply your customizations. For a list of new and modified tables, see “Data Warehouse Tables Changed” on page 9.
- 11 Start the Scheduler. Make sure all jobs are still suspended.
- 12 If any customizations were previously added to HIST\_INV\_PROCESS\_XXXXXXXX and DAILY\_INV\_PROCESS\_XXXXXXXX, update the job to reinclude those extra parts. You can double check what was in the job by looking at the newly renamed HIST\_INV\_PROCESS\_XXXXXXXX\_1 or DAILY\_INV\_PROCESS\_XXXXXXXX\_1. Then, rename any existing DAILY\_INV\_PROCESS\_<source> job to DAILY\_INV\_PROCESS\_<source>\_1. Insert a copy of the new DAILY\_INV\_PROCESS\_XXXXXXXX and rename it to DAILY\_INV\_PROCESS\_<source>. Repeat this to copy the new HIST\_INV\_PROCESS\_XXXXXXXX for each source.
- 13 If any customizations were previously added to HIST\_LOAD\_PERM\_XXXXXXXX and DAILY\_PERM\_XXXXXXXX, update the job to reininclude those extra parts. You can double check what was in the job by looking at the newly renamed HIST\_LOAD\_PERM\_XXXXXXXX\_1 or DAILY\_PERM\_XXXXXXXX\_1. Then, rename any existing DAILY\_PERM\_<source> job to

DAILY\_PERM\_<source>\_1. Insert a copy of the new DAILY\_PERM\_XXXXXXXX and rename it to DAILY\_PERM\_<source>. Repeat this to copy the new HIST\_LOAD\_PERM\_XXXXXXXX for each source.

- 14 If any customizations were previously added to HIST\_SALES\_PROCESS\_XXXXXXXX, update the job to reinclude those extra parts. You can double check what was in the job by looking at the newly renamed HIST\_SALES\_PROCESS\_XXXXXXXX\_1. Then, rename any existing HIST\_SALES\_PROCESS\_<source> job to HIST\_SALES\_PROCESS\_<source>\_1. Insert a copy of the new HIST\_SALES\_PROCESS\_XXXXXXXX and rename it to HIST\_SALES\_PROCESS\_<source>.
- 15 Check the values of the TR\_HIST\_DATE\_MAX\_Sxx parameters for each source. If necessary, increase TR\_HIST\_PROCESS\_DAYS from the default value of 3 days. The number of Process Days must be such that the TODAY – earliest TR\_HIST\_DATE\_MAX\_Sxx is less than the TR\_HIST\_PROCESS\_DAYS. There are also several new parameters to control how the BI system handles the rollover of the tr\_trnbr:
  - **TR\_HIST\_PROCESS\_DAYS.** This is the number of look-back days when extracting data from tr\_hist. The records being extracted are records where tr\_trnbr is greater than the highest transaction\_number records already extracted for that source, except after tr\_trnbr rollover, when newer transactions may have smaller trnbrs than older transactions. The BI DW must also take into account the transaction date in order to find the lower-numbered transactions that are actually new. This parameter says to extract from the ERP transactions entered within the last X days. If the number of days since the TR\_HIST\_DATE\_MAX\_Sxx is greater than the TR\_HIST\_PROCESS\_DAYS parameter, a task that checks this during the run will fail and indicate that this number needs to be increased. The default value is 3.
  - **TR\_HIST\_MAX\_VALUE.** This is the maximum number allowed for the tr\_hist.tr\_trnbr field, or in other words, the number after which the tr\_trnbr will roll over and start at the first available low number. The default value is 99999999. If the tr\_sq01 sequence is set to a different maximum value, enter that here.
  - **TR\_HIST\_PRE\_ROLLOVER\_COUNT.** This is the number of records that would typically be in three days worth of data to ensure readiness for tr\_hist.tr\_trnbr rollover. Once the tr\_trnbr for a source is detected to be within TR\_HIST\_PRE\_ROLLOVER\_COUNT of TR\_HIST\_MAX\_VALUE, the BI system sets the TR\_HIST\_TRAN\_MAX\_Sxx value for the source to 0. This will force the tr\_hist extraction to scan the whole table for records that have been processed within the last TR\_HIST\_PROCESS\_DAYS. The default value is 5000.
  - **TR\_HIST\_PCT\_OF\_MAX\_REF.** This is the percent of the TR\_HIST\_MAX\_VALUE to use as a reference point to look for new low-numbered transactions when dealing with the rollover. The default value is 50. When this value is 50, you search the transactions with numbers less than 50% of the TR\_HIST\_MAX\_VALUE for the highest number with a transaction date within the processing window.
- 16 If you are upgrading from 3.5.1 to 3.5.2, skip to step 17. If you are upgrading directly from 3.5 to 3.5.2, run the UPGRADE\_35\_to\_351\_QBIS\_25 job to update the permsup\_transaction\_hist and fact\_om\_booking, tables to include the transaction date, and to seed the TR\_HIST\_DATE\_MAX values for each source.
- 17 Run the Upgrade jobs for the inventory valuation and order history issues as follows:
  - a Set the JOB\_CHAINING\_ENABLED parameter to N.

**Note** Ensure that the INV\_PROCESS\_DAYS parameter is set to be large enough to load records from the ERP system since the last Daily run.
  - b Run the UPGRADE\_35\_TO\_352\_OM\_order\_hist\_index\_drop\_and\_table\_truncate job.

- c** Run SET\_CONNECTION\_<connection\_name> for your first source system. If you have only one source system, you do not need to perform this step.
  - d** If you have already installed BI 3.5.1, skip to step i. Otherwise, if you are upgrading directly from BI 3.5, run DAILY\_COMMON\_PROCESS\_<connection\_name>.
  - e** Run DAILY\_PERM\_<connection\_name>.
  - f** Run DAILY\_INV\_PROCESS\_<connection\_name>.
  - g** Replace the prefix of the word DAILY with HIST for the INV\_PROCESS\_RUNNING\_JOB\_NAME parameter.
  - h** Run the UPGRADE\_35\_to\_351\_QBI\_1773 job.  
**Note** This job may take a long time because it is recalculating the entire fact\_inv\_mth\_balance table.
  - i** Run the HIST\_PERM\_EXTRACT job.
  - j** Run the UPGRADE\_35\_TO\_352\_QBI\_2068\_OM\_ORD\_HIST\_RELOAD job.
  - k** Repeat steps c through j for each connection name.
  - l** Run the UPGRADE\_35\_TO\_352\_OM\_order\_hist\_index\_rebuild job.
  - m** Run the UPGRADE\_35\_TO\_352\_QBI\_2068\_ROLLUPS job.
- 18** Set the INV\_PROCESS\_DAYS parameter back to an appropriate value such as 5-10 days, if necessary.
- 19** Set the JOB\_CHAINING\_ENABLED parameter back to Y.
- 20** Reset the DAILY\_START job so that it will run again normally.
- 21** Resume normal processing.

# Release Notes for Releases 3.6.1 and 3.5.1

**QAD Business Intelligence Version:** 3.6.1 and 3.5.1

**Date:** June 2012

QAD BI 3.6.1 and 3.5.1 address the tr\_hist.trnbr roll-over issue and the inventory issues involving correct determination of unit cost and end quantity on hand. Customers who are not experiencing these issues are not required to install this maintenance release.

## Fixes

Component	QAD Issue	Releases	Description
Metadata	QBIS-25	BI 3.5.1, 3.6.1	tr_hist.trnbr archive and rollover are now handled in BI.
Metadata	QBI-1363	BI 3.5.1, 3.6.1	Inventory - fact_inv_mth_balance will now properly capture the unit_cost of items.
Metadata	QBI-33, QBI-1773	BI 3.5.1, 3.6.1	Corrects calculation of Inventory End Quantity on Hand.
Metadata	QBI-1556	BI 3.6.1	Added sales_person_code to perm_transaction_hist.
Metadata	QBI-1698	BI 3.6.1	Truncation and load of inventory transaction type tables moved earlier as required by Inventory processing.
Metadata	QBI-1768	BI 3.6.1	stage_om_order3 join to dim_account corrected.
Metadata	QBI-703	BI 3.5.1	Index added to stage_inv_mth_balance to improve performance of fact_inv_mth_balance custom processing.

## Data Warehouse Tables Changed

The following section lists the Data Warehouse tables that have been changed, added, or deleted.

**Note** The tables on the Modified list may have been changed structurally. For example:

- Columns added or deleted
- Indexes added or deleted
- Changes made to business display names
- Changes to visibility of particular columns in the BI Portal
- Any combination of these modifications

### List of Tables Modified for BI 3.6.1

#### Common Module

- load\_tr\_hist
- stage\_tr\_hist\_list
- perm\_transaction\_hist
- permsup\_transaction\_hist

#### Operations Module

- extract\_inv\_trans\_hist\_cons
- extract\_inv\_transaction\_hist
- extract\_po\_transaction\_hist
- extract\_op\_transaction\_hist
- fact\_inv\_mth\_balance
- fact\_inv\_transaction
- stage\_inv\_bal\_mth\_list
- stage\_inv\_bal\_mth\_trans
- stage\_inv\_bal\_mth\_trans1
- stage\_inv\_bal\_mth\_trans2
- stage\_inv\_mth\_balance
- stage\_inv\_mth\_balance\_hist\_calc
- stage\_op\_transaction\_merge
- stage\_op\_transaction\_merge
- stage\_op\_transaction\_merge
- stage\_op\_transaction0
- stage\_op\_transaction1
- stage\_op\_transaction2

- fact\_op\_transaction
- perm\_op\_hist
- stage\_inv\_bal\_mth\_current
- stage\_inv\_bal\_mth\_current4
- stage\_inv\_bal\_mth\_date
- stage\_inv\_bal\_mth\_date1
- stage\_inv\_bal\_mth\_date2
- stage\_inv\_mth\_balance1
- stage\_inv\_transaction\_con\_cus3
- stage\_inv\_transaction\_con\_cus4
- stage\_op\_tr\_hist\_rjct\_wo
- stage\_op\_trans\_scrapi
- stage\_op\_transaction
- stage\_po\_order\_hist\_initial4
- stage\_po\_order\_hist\_initial5
- stage\_po\_order\_hist\_initial6
- work\_inv\_change\_hist\_list
- work\_inv\_change\_list
- work\_inv\_change\_list1

## Order Management Module

- extract\_om\_transaction\_hist
- stage\_om\_booking
- fact\_om\_booking
- fact\_om\_shipment
- stage\_om\_booking\_max\_tran
- stage\_om\_booking\_previous
- stage\_om\_booking\_transaction
- stage\_om\_booking\_transaction1
- stage\_om\_invoice\_transaction
- stage\_om\_invoice\_transaction1
- stage\_om\_order
- stage\_om\_order1
- stage\_om\_order2
- stage\_om\_order3

### List of Tables Added for BI 3.6.1

- stage\_inv\_mth\_end\_cst
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_trx\_chg\_mths1

### List of Tables Deleted for BI 3.6.1

No tables deleted for BI 3.6.1 upgrade.

### List of Tables Modified for BI 3.5.1

- extract\_inv\_trans\_hist\_cons
- extract\_inv\_transaction\_hist
- extract\_om\_transaction\_hist
- extract\_po\_transaction\_hist
- fact\_inv\_mth\_balance
- fact\_inv\_transaction
- fact\_om\_booking
- fact\_om\_shipment
- load\_tr\_hist
- perm\_transaction\_hist
- permsup\_transaction\_hist
- stage\_inv\_bal\_item\_list
- stage\_inv\_bal\_mth\_current
- stage\_inv\_bal\_mth\_current4
- stage\_inv\_bal\_mth\_date
- stage\_inv\_bal\_mth\_date1
- stage\_inv\_bal\_mth\_date2
- stage\_inv\_bal\_mth\_list
- stage\_inv\_bal\_mth\_trans
- stage\_inv\_bal\_mth\_trans1
- stage\_inv\_bal\_mth\_trans2
- stage\_inv\_bal\_revalue1
- stage\_inv\_mth\_balance
- stage\_inv\_mth\_balance\_hist\_calc
- stage\_inv\_mth\_balance1
- stage\_inv\_transaction\_con\_cus3
- stage\_inv\_transaction\_con\_cus4
- stage\_om\_booking
- stage\_om\_booking\_max\_tran
- stage\_om\_booking\_previous
- stage\_om\_booking\_transaction
- stage\_om\_booking\_transaction1
- stage\_om\_invoice\_transaction
- stage\_om\_invoice\_transaction1
- stage\_om\_order
- stage\_om\_order1
- stage\_om\_order2
- stage\_om\_order3
- stage\_po\_order\_hist\_initial4
- stage\_po\_order\_hist\_initial5
- stage\_po\_order\_hist\_initial6
- stage\_tr\_hist\_list
- stage\_tr\_hist\_list
- stage\_unit\_of\_measure3
- work\_inv\_change\_hist\_list
- work\_inv\_change\_list
- work\_inv\_change\_list1

### List of Tables Added for BI 3.5.1

- stage\_inv\_mth\_end\_cst
- stage\_inv\_trx\_chg\_mths
- stage\_inv\_mth\_end\_cst1
- stage\_inv\_trx\_chg\_mths1

## List of Tables Deleted for BI 3.5.1

No tables deleted for BI 3.5.1 upgrade.

## Upgrade to 3.6.1 from 3.6

### Preparation

- 1 Plan for a couple of hours of down time.
- 2 Ensure that there are no loads currently in progress. All jobs must be completed.
- 3 Put all scheduled jobs On Hold until the upgrade is complete. Shut down the scheduler.
- 4 Take a backup of the current warehouse database.
- 5 Before you begin, make note of the following:
  - Note any custom DAILY\_LOAD\_JOBxxx jobs that appear after the final ROLLUP jobs; for example, DAILY\_PO\_ROLLUP or DAILY\_SALES\_ROLLUP if you do not have the Purchase Orders module installed. If you have neither Sales nor Purchase Order processing, note any custom jobs that might be after the final SNAPSHOT jobs: \_\_\_\_\_
  - Note any custom HIST\_LOAD\_JOBxxx jobs that appear after the standard ROLLUP or SNAPSHOT jobs: \_\_\_\_\_

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

### Upgrade Steps for QAD BI Metadata

- 1 Unzip the metadata for the Common module and any other modules you have installed.

**Note** Because the metadata files are now segregated by module, it is only necessary to install the modules that are needed.

  - Perform the Common upgrade first. The other upgrades can be done in any order.
  - All users need to run the Common metadata upgrade application.
  - If you process any of the Order Management (Sales) fact\_om\_\* tables, install the Order Management (OM) upgrade application.
  - If you process Inventory and/or Purchase Order tables, install the Operations module upgrade application.
  - There is no upgrade to the Financials module in this maintenance release.
- 2 Log in to Setup Administrator.
- 3 Choose Tools|Start Logging. Select a name and location for your log file and Save.
- 4 Load the Common Module Upgrade Application as follows:
  - a Set your application directory to the new *metadata/common* folder.
  - b Load application *upgradeCom* by right-clicking on the file and choosing Install Application.
  - c From the drop-down list, select the ODBC DSN for your DWD instance.
  - d The system prompts you to proceed. Click OK.

**Note** You can cancel the installation here to review the list of new and modified objects. To continue with the load, right-click in the window and choose Proceed with Load Application.

- e The next dialog box is Application Load Properties. Verify that the default values are correct. Make any changes if necessary:
    - On the left, select Dimension. On the right, click on the box next to *Existing Dimension objects will be* and select Altered.
    - On the left, select Dimension View. On the right, click on the box next to *Existing Dimension View objects will be* and select Recreated.
    - On the left, select Stage Table. On the right, click on the box next to *Existing Stage table objects will be* and select Recreated.
    - On the left, select Permanent Stage Table. On the right, click on the box next to *Existing Permanent Stage table objects will be* and select Altered.
    - On the left, select Fact Table. On the right, click on the box next to *Existing Fact table objects will be* and select Altered.
    - Click OK.
- 5 Repeat for any other modules that must be upgraded.
- **Order Management.** Change the Application Directory to the *metadata/order\_management* subdirectory and install application *upgradeOM*.
  - **Operations.** Change the Application Directory to the *metadata/operations* subdirectory and install application *upgradeOps*.

**Note** The upgrade application installations will take some time as the load process alters and re-creates various objects.

- 6 After the upgrade applications have been installed, reapply the customizations to the upgraded tables. Verify that all other customizations are not affected.
- 7 Start the Scheduler. Make sure all jobs are still suspended.
- 8 Run the Upgrade jobs for the tr\_hist.tr\_trnbr roll-over issue for each module you have installed:
- **Common Module.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_COMMON job to update the permsup\_transaction\_hist table to include the transaction date and to seed the TR\_HIST\_DATE\_MAX values for each source.
  - **Order Management.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_OM job to update the fact\_om\_booking table to include the transaction date.
  - **Operations.** Run the UPGRADE\_36\_to\_361\_QBIS\_25\_OP job to update the fact\_op\_transaction table to include the transaction date.
- 9 Run the Upgrade job for the inventory valuation issues:
- a Set the JOB\_CHAINING\_ENABLED parameter to N.
- Important** Ensure that the INV\_PROCESS\_DAYS parameter is set to be large enough to load records from the ERP system since the last Daily run.
- b Run the UPGRADE\_36\_to\_361\_QBI\_1773 job.
  - c Set the JOB\_CHAINING\_ENABLED parameter back to Y.
- 10 If the upgrade affected any customized tables, reapply your customizations. For a list of new and modified tables, see “Data Warehouse Tables Changed” on page 18.

- 11 If there were any customizations previously added to any of the modified jobs, update the job to reinclude those extra parts. You can double check what was in the job by looking at the newly renamed <jobname>\_1. The jobs that changed in this release are:
- PREPROCESS\_COMMON\_LOADS
  - PREPROCESS\_COMMON\_TRUNCATE
  - PREPROCESS\_OP\_LOAD
  - PREPROCESS\_OP\_TRUNCATE
  - DAILY\_OP\_PERM\_EXTRACT
  - HIST\_OP\_PERM\_EXTRACT
  - DAILY\_OP\_INV\_PROCESS\_CHAINED
  - HIST\_OP\_INV\_PROCESS\_CHAINED
- 12 Check the values of the TR\_HIST\_DATE\_MAX\_Sxx parameters for each source. If necessary, increase TR\_HIST\_PROCESS\_DAYS from the default value of 3 days. The number of Process Days must be such that the TODAY - earliest TR\_HIST\_DATE\_MAX\_Sxx is less than the TR\_HIST\_PROCESS\_DAYS. There are also several new parameters to control how the BI system handles the rollover of the tr\_trnbr:
- **TR\_HIST\_PROCESS\_DAYS.** This is the number of look-back days when extracting data from tr\_hist. The records being extracted are records where tr\_trnbr is greater than the highest transaction\_number records already extracted for that source, except after tr\_trnbr rollover, when newer transactions may have smaller trnbrs than older transactions. The BI DW must also take into account the transaction date in order to find the lower-numbered transactions that are actually new. This parameter says to extract from the ERP transactions entered within the last X days. If the number of days since the TR\_HIST\_DATE\_MAX\_Sxx is greater than the TR\_HIST\_PROCESS\_DAYS parameter, a task that checks this during the run will fail and indicate this number needs to be increased. The default value is 3.
  - **TR\_HIST\_MAX\_VALUE.** This is the maximum number allowed for the tr\_hist.tr\_trnbr field, or in other words, the number after which the tr\_trnbr will roll over and start at the first available low number. The default value is 99999999. If the tr\_sq01 sequence is set to a different maximum value, enter that here.
  - **TR\_HIST\_PRE\_ROLLOVER\_COUNT.** This is the number of records that would typically be in three days worth of data to ensure readiness for tr\_hist.tr\_trnbr rollover. Once the tr\_trnbr for a source is detected to be within TR\_HIST\_PRE\_ROLLOVER\_COUNT of TR\_HIST\_MAX\_VALUE, the BI system sets the TR\_HIST\_TRAN\_MAX\_Sxx value for the source to 0. This will force the tr\_hist extraction to scan the whole table for records that have been processed within the last TR\_HIST\_PROCESS\_DAYS. The default value is 5000.
  - **TR\_HIST\_PCT\_OF\_MAX\_REF.** This is the percent of the TR\_HIST\_MAX\_VALUE to use as a reference point to look for new low-numbered transactions when dealing with the rollover. The default value is 50. When this value is 50, you will search the transactions with numbers less than 50% of the TR\_HIST\_MAX\_VALUE for the highest number with a transaction date within the processing window.
- 13 Resume normal processing.

## Upgrade to 3.5.1 from 3.5

### Preparation

- 1 Plan for a couple of hours of down time.
- 2 Ensure that there are no loads currently in progress. All jobs must be completed.
- 3 Put all scheduled jobs On Hold until the upgrade is complete. Shut down the scheduler.
- 4 Take a backup of the current warehouse database.
- 5 Before you begin, make note of the following:
  - Note any custom DAILY\_LOAD\_JOBxxx jobs that appear after the final ROLLUP jobs; for example, DAILY\_PO\_ROLLUP or DAILY\_SALES\_ROLLUP if you do not have the Purchase Orders module installed. If you have neither Sales nor Purchase Order processing, note any custom jobs that might be after the final SNAPSHOT jobs: \_\_\_\_\_  
\_\_\_\_\_
  - Note any custom HIST\_LOAD\_JOBxxx jobs that appear after the standard ROLLUP or SNAPSHOT jobs: \_\_\_\_\_

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

### Upgrade Steps for QAD BI Metadata

- 1 Unzip the metadata for the BI 3.5.1 Upgrade.
- 2 Log in to Setup Administrator.
- 3 Choose Tools|Start Logging. Select a name and location for your log file, then save.
- 4 Load the BI 3.5.1 Upgrade Application as follows:
  - a Set the application directory to the new metadata folder.
  - b Load application *upgradeBI* by right-clicking on the file and choosing Install Application.
  - c From the drop-down list, select the ODBC DSN for your DWD instance.
  - d The system prompts you to proceed. Click OK.

**Note** You can always cancel here to review the list of new and modified objects. To continue with the load, right-click in the window and choose Proceed with Load Application.

- e The next dialog box is Application Load Properties. Verify that the default values are correct. Make any changes if necessary:
  - On the left, select Dimension. On the right, click on the box next to *Existing Dimension objects will be* and select Altered.
  - On the left, select Dimension View. On the right, click on the box next to *Existing Dimension View objects will be* and select Recreated.
  - On the left, select Stage Table. On the right, click on the box next to *Existing Stage table objects will be* and select Recreated.
  - On the left, select Permanent Stage Table. On the right, click on the box next to *Existing Permanent Stage table objects will be* and select Altered.

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

**Note** The upgrade application installations will take some time as the load process alters and re-creates various objects.

- 5 If the upgrade affected any customized tables, reapply your customizations. For a list of new and modified tables, see “Data Warehouse Tables Changed” on page 18.
- 6 Start the Scheduler. Make sure all jobs are still suspended.
- 7 If any customizations were previously added to HIST\_INV\_PROCESS\_XXXXXXXX and DAILY\_INV\_PROCESS\_XXXXXXXX, update the job to reinclude those extra parts. You can double check what was in the job by looking at the newly renamed HIST\_INV\_PROCESS\_XXXXXXXX\_1 or DAILY\_INV\_PROCESS\_XXXXXXXX\_1. Then, rename any existing DAILY\_INV\_PROCESS\_<source> job to DAILY\_INV\_PROCESS\_<source>\_1. Insert a copy of the new DAILY\_INV\_PROCESS\_XXXXXXXX and rename it to DAILY\_INV\_PROCESS\_<source>. Repeat this to copy the new HIST\_INV\_PROCESS\_XXXXXXXX for each source.
- 8 If any customizations were previously added to HIST\_PERM\_XXXXXXXX and DAILY\_PERM\_XXXXXXXX, update the job to reininclude those extra parts. You can double check what was in the job by looking at the newly renamed HIST\_PERM\_XXXXXXXX\_1 or DAILY\_PERM\_XXXXXXXX\_1. Then, rename any existing DAILY\_PERM\_<source> job to DAILY\_PERM\_<source>\_1. Insert a copy of the new DAILY\_PERM\_XXXXXXXX and rename it to DAILY\_PERM\_<source>. Repeat this to copy the new HIST\_PERM\_XXXXXXXX for each source.
- 9 Run the UPGRADE\_35\_to\_351\_QBIS\_25 job to update the permsup\_transaction\_hist, fact\_om\_booking, and fact\_op\_transaction tables to include the transaction date and to seed the TR\_HIST\_DATE\_MAX values for each source.
- 10 Run the Upgrade job for the inventory valuation issues:
  - a Set the JOB\_CHAINING\_ENABLED parameter to N.

**Important** Ensure that the INV\_PROCESS\_DAYS parameter is set to be large enough to load records from the ERP system since the last Daily run.

- b Run SET\_CONNECTION\_<connection\_name> for your first source system. If you have only one source system, you do not need to perform this step.
- c Run DAILY\_COMMON\_PROCESS\_<connection\_name>.
- d Run DAILY\_PERM\_<connection\_name>.
- e Run DAILY\_INV\_PROCESS\_<connection\_name>.
- f Replace the prefix of the word DAILY with HIST for the INV\_PROCESS\_RUNNING\_JOB\_NAME parameter.
- g Run the UPGRADE\_35\_to\_351\_QBI\_1773 job.

**Note** This job may take a long time because it is recalculating the entire fact\_inv\_mth\_balances table.

- h Repeat steps b through g for each connection name.
- i Set the INV\_PROCESS\_DAYS parameter back to an appropriate value such as 5-10 days.
- j Set the JOB\_CHAINING\_ENABLED parameter back to Y.

**k** Reset the DAILY\_START job so that it will run again normally.

**11** Check the values of the TR\_HIST\_DATE\_MAX\_Sxx parameters for each source. If necessary, increase TR\_HIST\_PROCESS\_DAYS from the default value of 3 days. The number of Process Days must be such that the TODAY - earliest TR\_HIST\_DATE\_MAX\_Sxx is less than the TR\_HIST\_PROCESS\_DAYS. There are also several new parameters to control how the BI system handles the rollover of the tr\_trnbr:

- **TR\_HIST\_PROCESS\_DAYS.** This is the number of look-back days when extracting data from tr\_hist. The records being extracted are records where tr\_trnbr is greater than the highest transaction\_number records already extracted for that source, except after tr\_trnbr rollover, when newer transactions may have smaller trnbrs than older transactions. The BI DW must also take into account the transaction date in order to find the lower-numbered transactions that are actually new. This parameter says to extract from the ERP transactions entered within the last X days. If the number of days since the TR\_HIST\_DATE\_MAX\_Sxx is greater than the TR\_HIST\_PROCESS\_DAYS parameter, a task that checks this during the run will fail and indicate that this number needs to be increased. The default value is 3.
- **TR\_HIST\_MAX\_VALUE.** This is the maximum number allowed for the tr\_hist.tr\_trnbr field, or in other words, the number after which the tr\_trnbr will roll over and start at the first available low number. The default value is 99999999. If the tr\_sq01 sequence is set to a different maximum value, enter that here.
- **TR\_HIST\_PRE\_ROLLOVER\_COUNT.** This is the number of records that would typically be in three days worth of data to ensure readiness for tr\_hist.tr\_trnbr rollover. Once the tr\_trnbr for a source is detected to be within TR\_HIST\_PRE\_ROLLOVER\_COUNT of TR\_HIST\_MAX\_VALUE, the BI system sets the TR\_HIST\_TRAN\_MAX\_Sxx value for the source to 0. This will force the tr\_hist extraction to scan the whole table for records that have been processed within the last TR\_HIST\_PROCESS\_DAYS. The default value is 5000.
- **TR\_HIST\_PCT\_OF\_MAX\_REF.** This is the percent of the TR\_HIST\_MAX\_VALUE to use as a reference point to look for new low-numbered transactions when dealing with the rollover. The default value is 50. When this value is 50, you search the transactions with numbers less than 50% of the TR\_HIST\_MAX\_VALUE for the highest number with a transaction date within the processing window.

**12** Resume normal processing.

# Release Notes for Release 3.6

**QAD Business Intelligence Version:** 3.6

**Date:** March 2012

QAD BI 3.6 introduces a new sub-module to QAD BI—Operations Metrics. The Data Warehouse Designer has undergone some changes to the look and feel of the application. Finally, significant changes have been made to improve the performance of the extract, transformation, and load processes.

## Installation Changes

BI Modules can now be installed independently. Please refer to the *QAD BI 3.6 Installation Guide* for additional information.

The *Installation Guide* also includes instructions on how to upgrade to QAD BI 3.6 from QAD BI 3.5.

## Application Changes

### Operations Module

A new sub-module has been added for Capacity Planning and Control. This new functionality has been introduced to support OEE metrics for production lines. Five new Query Areas have been added: *Equipment Effectiveness*, *Item Efficiency*, *Work Orders*, *Operations Transactions*, and *Work Order Routings*. A new QAD Standard dashboard, *Capacity Planning and Control – Production Lines*, has been added to display OEE metrics including OEE (Overall Equipment Effectiveness), Availability, Performance, and Quality Performance. The dashboard provides both high-level metrics by site and production line within a site, and drill-downs to the supporting data.

Additional information is available in the *QAD BI 3.6 Portal User Guide*.

### Performance

The load logic for many tables has been modified to restrict the amount of data that is loaded each day during the ETL process. This makes the daily processing much more efficient, reducing daily run times greatly.

### Job Scheduler

The daily scheduled jobs have been streamlined. This reduces redundancy and improves operational monitoring and troubleshooting. The Job names have changed considerably. More details on this are provided in the *QAD BI 3.6 Installation Guide*.

### Data Warehouse Designer Upgrade

The DWD User Interface has been upgraded. The changes include renaming the *Browser* tab to *Builder*. There are expanded context menu items available for objects. Right-click on an object and an “Impact” option is now displayed. This allows you to run key object reports, including Track Back/Forward Reports, directly from the Object Browser.

## Fixes and Minor Enhancements

Component	Issue ID	Description
Modules	QBIS-16	Fact_inv_mth_balance processing – divide by 0 error in stage_inv_mth_balance_calc.
Modules	QBIS-20	Data loads from multiple sources now loading correctly. Problem had been reported with multiple EE Source systems and control parameters.
Modules	QBI-491	Stage_gl_transaction1 processing was slow due to corporate currency conversion.
Modules	QBI-569	The loads of ih_hist and idh_hist were pulling all source data for every daily run. This has been resolved.
BI Portal	QBI-598	Internationalization – BI Portal users are now able to change their own language setting.
Modules	QBI-610	PO Order History records were not matching dim_item_key. This has been fixed.
BI Portal	QBI-615	Visual Item Actions in Flex Portal – corrected drill in/drill out and easy reorder of menu actions.
DWD Admin	QBI-616	Problem with metadata translation file headers for Czech and Korean languages has been resolved.
Modules	QBI-618	The load time for stage_gl_transaction1 greatly reduced.
Modules	QBI-624	The source unit cost used in the purchasing module is now correctly handled as the transaction currency.
BI Portal	QBI-649	Ability to drill-down on separate measures.
Modules	QBI-657	Load_ee_domainShareSet was not being used properly in the EE environment. This has been fixed.
Modules	QBI-675	Order performance – additional flags added to fact_om_order_performance and fact_om_shipment to improve overall performance reporting. Fact_om_shipment - 'late/early/on-time' flags added. Fact_om_order_performance: <ul style="list-style-type: none"> <li>• Early_shipment_flag</li> <li>• In_full_flag</li> <li>• Late_shipment_flag</li> <li>• On_time_flag</li> <li>• OTIF_flag (on-time, in-full)</li> </ul> Column removed from fact_om_performance: <ul style="list-style-type: none"> <li>• Ontime_due_date_flag</li> </ul> New Parameters have been added: <ul style="list-style-type: none"> <li>• SALES_EARLY_TOLERANCE_DELAY</li> <li>• SALES_LATE_TOLERANCE_DELAY</li> <li>• SALES_PERCENT_QTY_OVER</li> <li>• SALES_PERCENT_QTY_UNDER</li> </ul>
Modules	QBI-699	Dimension columns that had Business Display names that were causing problems in SQL Server Analysis Services have been corrected.
Modules	QBI-700	The logic to determine late markers in the fact_om_performance table has been updated.
Modules	QBI-703	The custom processing for stage_inv_mth_balance has been modified to improve performance.
Modules	QBI-737	Load Logic for fact_po_order modified to include closed lines. The PO_SNAPSHOT_FREQUENCY parameter was modified. The Daily option was removed and the default set to "B" both weekly and monthly. Two attributes added to the QAD Date Dimension to indicate if snapshot is end of week or end of month. <ul style="list-style-type: none"> <li>• calendar_end_of_week_flag</li> <li>• calendar_end_of_month_flag</li> </ul>
Modules	QBI-745	Unit cost in fact_po_order_history, fact_po_order and fact_po_order_performance modified to consider discounts. See also QBI-746.
Modules	QBI-746	Purchasing - cost measures are now correctly extended to factor in discounts in the fact_po_order_history and fact_po_order_performace tables. See also QBI-745

<b>Component</b>	<b>Issue ID</b>	<b>Description</b>
Modules	QBI-756	Business (display) name of dim_po_line_type has been changed to Line Ship Type.
BI Portal	QBI-793	Standard QAD Excel workbooks now have “QAD” as their creator.
BI Portal	QBI-798	INFO line in BI Portal Server corrected.
Modules	QBI-799	A problem with the sequencing of the Address and Customer data load has been resolved.
Modules	QBI-808	Some tables in the Purchasing sub-module had varchar types. These have been changed to nvarchar.
Modules	QBI-809	Some tables in the Order Management module had varchar types. These have been changed to nvarchar.
Modules	QBI-810	The UNICODE flag is now correctly set in the load_in_hist table.
Modules	QBI-811	The SubstrPartN function now correctly returns all the elements of an array.
Modules	QBI-924	ETL logic for fact_po_order_history now setting history_end_dates correctly on closed orders.
Modules	QBI-984	Performance improvement to EE GL Balance processing by modifying the exchange rate calculations.
Modules	QBI-986	Removed “Drop all indexes,” “Build all indexes,” and “Analyze” from the standard scheduled jobs.
Modules	QBI-1000	Corrected issue with fact_om_shipments related to location codes.
Modules	QBI-1002	An issue with number of decimal places for the list_price_trans in the fact_om_booking table is corrected. This field is now correctly handled with 10 decimal places.
BI Portal	QBI-1003	A Date/Time column in a Grid type visual item will now display the correct default format when no format is selected.
Mobile	QBI-1006	Problem with iPad app if Dashboard includes a horizontal bar resolved.
Modules	QBI-1025	ADDRESS_PROCESS will now work correctly for Historical data loads. A fix was made to the second pass of this process.
Modules	QBI-1172	Stage_gl_balance2 performance has been improved by reworking calls to the ConvertCurrencyValueTrans function.
Modules	QBI-1232	The following columns have been added to dim_customer: <ul style="list-style-type: none"> <li>• SIC_code</li> <li>• SIC_description</li> <li>• Credit_limit</li> <li>• Debtor_tax_id_misc1</li> <li>• Debtor_tax_id_misc2</li> <li>• Debtor_tax_id_misc3</li> <li>• Payment_group_code</li> <li>• Payment_group_description</li> <li>• Payment_condition_code</li> <li>• Payment_condition_description</li> </ul>
Modules	QBI-1235	Territory Description attribute added to Salesperson dimension.

<b>Component</b>	<b>Issue ID</b>	<b>Description</b>
Modules	QBI-1236	<p>Many new columns added to dim_account:</p> <ul style="list-style-type: none"> <li>• account_gl_type_code</li> <li>• account_gl_type_description</li> <li>• account_currency_code</li> <li>• account_is_active_flag</li> <li>• account_system_type_code</li> <li>• account_system_type_description</li> <li>• account_shared_set_code</li> <li>• account_budget_group_code</li> <li>• account_budget_group_description</li> <li>• account_unit_of_measure_code</li> <li>• account_unit_of_measure_description</li> <li>• account_intercompany_code</li> <li>• account_cash_group_code</li> <li>• account_cash_group_description</li> <li>• account_is_project_flag</li> <li>• account_is_balance_sheet_flag</li> <li>• account_is_division_flag</li> <li>• account_is_cost_centre_flag</li> <li>• account_is_saf_flag</li> </ul>
Modules	QBI-1268	Display names for amount and cost columns were corrected to follow the standard QAD BI naming conventions.
Modules	QBI-1269	The logic for the fact_om_order_history table was not handling the complete_status_flag from sod_det properly, when determining records with and order_status of DELETED. This has been fixed.
Modules	QBI-1271	<p>The following columns have been added to fact_inv_transaction:</p> <ul style="list-style-type: none"> <li>• Sales_order_job_number</li> <li>• Inventory_status</li> <li>• Order_number</li> <li>• Order_line_number</li> </ul> <p>In addition, a link to the User Dimension has been added.</p>
Modules	QBI-1273	The fact_om_invoice table will now correctly join to the dim_entity table, even with the site_code on the OM Invoice Header is null.
Modules	QBI-1274	<p>The following value columns in the fact_inv_mth_balance table will now be correctly calculated:</p> <ul style="list-style-type: none"> <li>• Open_value_oh_total_corp</li> <li>• Open_value_oh_net_corp</li> <li>• Open_value_oh_nonnet_corp</li> <li>• End_value_oh_total_corp</li> <li>• End_value_oh_net_corp</li> <li>• End_value_oh_nonnet_corp</li> <li>• Value_issue_corp</li> <li>• Value_receipt_corp</li> <li>• Value_sales_order_corp</li> <li>• Value_git_corp</li> </ul>
Modules	QBI-1279	<p>Fact_om_shipment now uses correct source for the following columns:</p> <ul style="list-style-type: none"> <li>• Shipment_date = transaction.shipment_date</li> <li>• Due_date = order_line.due_date</li> <li>• Project Code = order_line.project_code</li> <li>• Salesperson[1-4] = order_line.salesperson[1-4]</li> </ul>

## 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)
- The *Compare By* in the Query Designer does not allow calculated fields. (QBI-587)
- Export to PDF of a 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 in Model screen, but not in Add/Edit User screen. (QBI-626)
- Chrome – Visual Items sometimes show no data when in fact, there is data. As a short-term workaround, the user can view a different dashboard and return the dashboard experiencing the problem. (QBI-772)
- Mobile BI – Separate drill-ins for multi-measure charts does not work on the iPad platform. (QBI-1307)
- After changing your own language in the Portal, you must log out and log back in; you will receive “invalid session” errors if you try to do some other function after a language change. (QBI-1312)

### 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)
- The extended amounts calculated for closed orders is 0 because the extended amount is calculated using the open\_amount, not the order\_amount. (QBI-631)
- Installation of BI 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).
- Corporate amounts in the fact\_ap\_invoice\_snapshot are always 0. Note that the amounts in the Base currency are correct. (QBI-777)
- In the BI Portal, upon login, the portal tries to open a dashboard from a different instance. (QBI-1007)
- For Visual Items in the BI Portal, white space on graph headers should be minimized. (QBI-1023)
- The system will not show a production line and its associated quality statistics in the *Quality Data by Site, Production Line* grid anytime the site has had 13 or more prior weeks without any data reported against it. This is different from the Availability and Performance grids work. (QBI-1310)
- Reset of transaction number in QAD Enterprise Application (tr\_hist.tr\_trnbr) to 1 is not handled in BI. (QBIS-25)

# Release Notes for Release 3.5

## 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
- Fixes
- Known Issues
- Data Warehouse Tables Changed
- Upgrade to QAD BI 3.5 from BI 3.4.1

## 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\_om\_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	<p>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).</p> <p>If Actual Net Qty Received = Qty Ordered in Ordered UM, then In Full Flag = 1</p> <p>If (Actual Net Qty Received/ Qty Ordered in Ordered UM) &gt; 1 and &lt;= 1 + % PO_PERCENT_QTY_OVER, then In Full Flag = 1</p> <p>If (Actual Net Qty Received/Qty Ordered in Ordered UM) &lt; 1 and &gt;= 1 - % PO_PERCENT_QTY_UNDER, In Full Flag = 1</p> <p>Else In Full Flag = 0</p> <p>PO_PERCENT_QTY_OVER and PO_PERCENT_QTY_UNDER are new BI parameters</p>
	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_consignment, 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 minus 10%, 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 \_XXXXXXX; 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 Release 3.4.1

**QAD Business Intelligence Version:** 3.4.1

**Date:** June 2011

QAD BI 3.4.1 continues the evolution of QAD business intelligence to bring more modules for analysis and an improved portal with which to explore that data.

## New Feature Summary

### Portal

- Locale-specific formatting: The portal will now display numerical values and dates on reports and grids in locale-specific format. (QBI-647)
- The portal has been certified to run in Tomcat 7.0. (QBI-643)
- The portal has been certified to run in SQL Server 2008 R2. (QBI-644)

### Modules

- The analytical modules have been certified to run in SQL Server 2008 R2. (QBI-644)
- The Accounts Receivable (AR) and Accounts Payable (AP) fact tables now include a link to a dim\_expected\_pay\_date dimension. (QBI-226)
- All Data Warehouse tables now support multi-byte characters (all varchar and char columns have been changed to nvarchar). (QBI-629)

## Fixes

Component	Issue ID	Description
Portal	QBI-609	Internationalization - Query designer display of Average, Minimum, Maximum for measures not handling all characters properly
Portal	QBI-637	Portal Upgrade loses target of action item in visualizations
Portal	QBI-646	Visual Items - cannot pass in the value of a level to the drill in when the level is not included in the chart
Portal	QBI-663	Reports: parameters of type datetime do not get passed into the reports
Portal	QBI-669	Sometimes dashboard menu items (folders) display \${Name} rather than translated strings
Portal	QBI-670	Top visual item border not displayed if "show titlebar" is turned off
Portal	QBI-673	Columns of type DateTime defined on dimensions really only capture Date (not the time component) and should be interpreted as such
Portal	QBI-679	Can't select "no format" for Order Date in Reports; Order Date defaults to specific format (rather than no format) in Grids
Portal	QBI-692	Query Designer: Lost context (right-click) menu on Filters
Portal	QBI-694	Repository browser: lost right-click menu on items in Reference By tab
Portal	QBI-695	Test Run button on query designer won't work for other languages
Metadata	QBI-275	CA815434 - Issue with same day cancelled orders in population of fact_om_booking.
Metadata	QBI-308	AR invoices staging not mapping expected payment date to due date if the expected payment date is blank.
Metadata	QBI-505	AR Invoice contains record not in AR Invoice History
Metadata	QBI-568	load_id_det hangs due to oversized comment columns

Component	Issue ID	Description
Metadata	QBI-573	EE: needs to get invoice type for OM from different column than SE
Metadata	QBI-575	INITIAL_JOB_SETUP works only off of HIST_LOAD sources, not DAILY_LOAD sources
Metadata	QBI-583	hist_load_wait_for_tr_hist ends with "unhandled exception"
Metadata	QBI-586	load_pod_det - not running off scheduler but will run manually
Metadata	QBI-607	EE AP/AR loads fail if more than one EE data source
Metadata	QBI-608	AP and AR Snapshots processed more than necessary in multisource environment
Metadata	QBI-612	CLEANUP_LOAD_TABLES job doesn't include EE financial load, stage tables
Metadata	QBI-613	stage_inv_transaction_con_cus5 not processed in any job
Metadata	QBI-619	CA812413 - Product Group Description not populated correctly
Metadata	QBI-620	AR and AP SE History Snapshots not using AR/AP_SE_HIST_SNAPSHOT_START_DATE parameter
Metadata	QBI-621	OM non-OLAP cubes have problems with some dimension level hierarchies
Metadata	QBI-622	Order Management history reload not properly processing historic data
Metadata	QBI-623	ConvertCurrencyValueTrans sets base value to 0 if exchange_rate = exchange_rate1
Metadata	QBI-625	Orders in 7.15.1 Sales Orders by Order Report (eB) not reported in 7_15_1 OM Order Validation (BI)
Metadata	QBI-629	Data Warehouse not handling Chinese characters in ETL process
Metadata	QBI-634	fact_gen_led_report_line dimension keys incorrectly flagged as additive, have incorrect Source Table values
Metadata	QBI-636	UNICODE checkbox on the Source Mapping tab of the load tables not set
Metadata	QBI-638	CA817513 - fact_inv_mth_balance does not match QAD Progress   load_id_det.Id_status is null causing quantity to drop
Metadata	QBI-640	CA814417 - Fact_ar_invoice_snapshot has \$42 Million in 201012 and it should be closer to \$2 Million ("amount_open_base_91_over" too high due to closed ar invoices not fully paid)
Metadata	QBI-645	Behind one day for fact_ar_invoice_snapshot
Metadata	QBI-658	EE AP and AR Invoice Snapshot Fact table update procedures don't delete 'interim' records for current month
Metadata	QBI-661	For EE loads of AR/AP if there is more than one source system being installed at the same time, nothing prevents the next data source from running even though the AR/AP tables are not finished loading.
Metadata	QBI-678	EE AR/AP History loads can be corrupted if GL load fails
Metadata	QBI-681	Daily SE AR Invoice processing failed at stage_ar_invc_hist_age_recalc Custom job - trying to insert NULL into fact_ar_invoice_history.dim_expected_pay_date_key
Metadata	QBI-560	Need to research purpose of SALES_ORDER_HISTORY_DATE and PO_ORDER_HISTORY_DATE parameters and the problems created by them lagging after a restart.

## Known Issues

### Portal Issues

- 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 RED are not picked up unless a custom model is opened in the Portal, saved and closed. (QBI-127)
- Creating two Dashboards with same name in different folders causes problems. (QBI-514)

- "Compare By" in Query Design does not allow calculated fields. (QBI-587)
- Export to PDF of report - Chinese characters don't 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\_history is currently filtering out any orders where the open\_amount in tr\_hist = 0. We need these transactions to complete the history of transactions. (QBI-664) This problem can also cause fact\_om\_order\_performance to give false late markers. (QBI-700)
- Installation of BI analytical modules in a pre-domain ERP environment requires manual changes to metadata. (QBI-691)
- The BI analytical modules do not yet support the QAD ERP running in Oracle. (QBI-693)
- The FINANCIAL\_REPORT\_GENERATOR job only works on Standard Edition data, not on Enterprise Edition. (QBI-697)
- dim\_credit\_term - slowly changing dimension, creates new dimension key using same column values every day. (QBI-704)
- fact\_po\_order\_history is filtering out the offspring of blanket orders and it's unclear if this is actually correct. (QBI-705)

## Upgrade to QAD BI 3.4.1 from BI 3.4

### BI Portal Upgrade Procedure

#### 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 Copy the TOMCAT\_HOME\webapps\your\_bi\_appname directory to TOMCAT\_HOME\your\_bi\_appname.save34 so that you have a backup of your BI 3.4 web application.
- 2 Unzip the new BI 3.4.1 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 Start Tomcat.

#### Note on Password Encryption in the BI Portal

As of BI Portal 3.4, you may 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 the 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

- 1 Connect to your BI Portal. Click on the About link on the login screen and verify that the Version is 3.4.1 and the Build Number is BI3-TRUNK-JOB1-1008.

### BI Metadata Upgrade Procedure

Refer to the release notes for what has changed in this release. One of the very important changes is that the warehouse now supports multi-byte characters. All `varchar` and `char` columns will now be changed to `nvarchar`.

#### Preparation

- 1 Take a backup of the current warehouse database.
- 2 Plan for a couple of hours of down time.
- 3 Ensure none of the loads are currently in progress. All jobs must be completed.
- 4 Stop Scheduler.
- 5 Before you begin, make note the the following:
  - a Note the `AP_EE_HISTORY_DATE` (if it exists): \_\_\_\_\_
  - b Note the `AR_EE_HISTORY_DATE` (if it exists): \_\_\_\_\_
  - c Note any `DAILY_LOAD_SOURCE_Sxx` jobs that appear after the standard `_SNAPSHOT` tables:  
\_\_\_\_\_
  - d Note any `HIST_LOAD_SOURCE_Sxx` jobs that appear after the standard `_SNAPSHOT` tables:  
\_\_\_\_\_

**Warning** This upgrade will replace all your load tables, so if there are any customizations to the load tables, ensure they are ready to be made again.

### Upgrade Steps for QAD BI Metadata

- 1 Log in to Setup Administrator.
- 2 Load Application 341-up (this includes all tables, but only new/modified parameters and jobs).
- 3 A dialog box will prompt you "Do you want to proceed now?"; click OK.
- 4 The next dialog box is for "Application Load Properties":
  - a Select Dimension on the left; on the right, click on the box next to "Existing Dimension objects will be" and select Altered.
  - b Select Dimension View on the left; on the right, click on the box next to "Existing Dimension View objects will be" and select Recreated.
  - c Select Stage Table on the left; on the right, click on the box next to "Existing Stage table objects will be" and select Altered.
  - d 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.
  - e Select Fact Table on the left; on the right, click on the box next to "Existing Fact table objects will be" and select Altered.
  - f Click OK.
- 5 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.
- 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 (EE sources only) Populate AP\_EE\_HISTORY\_DATE\_MIN with a value approximately three years back or whatever date value the customer specifies for their historic loads to begin at. Note the different date format of YYYYMMDD.
  - b (EE sources only) If it doesn't exist, create an AP\_EE\_HISTORY\_DATE\_Sxx where xx = the number for every EE source system you have already installed. The number for each source should correspond to the source tied to the 'xx' number values at the end of the corresponding Parameters for DAILY\_LOAD\_SOURCE\_Sxx, HIST\_LOAD\_SOURCE\_Sxx and INITIAL\_JOB\_SETUP\_CONNECTION\_xx. It's OK to skip numbers if you have an SE source system in between. Populate that value with the AP\_EE\_HISTORY\_DATE you noted at the beginning.
  - c (EE sources only) Populate AR\_EE\_HISTORY\_DATE\_MIN with a value approximately three years back or whatever date value the customer specifies for their historic loads to begin at. Note the different date format of YYYYMMDD.
  - d (EE sources only) If it doesn't exist, create an AR\_EE\_HISTORY\_DATE\_Sxx where xx = the number for every EE source system you have already installed. The number for each source should correspond to the source tied to the 'xx' number values at the end of the corresponding Parameters for DAILY\_LOAD\_SOURCE\_Sxx, HIST\_LOAD\_SOURCE\_Sxx and

INITIAL\_JOB\_SETUP\_CONNECTION\_xx. It's OK to skip numbers if you have an SE source system in between. Populate that value with the AR\_EE\_HISTORY\_DATE you noted at the beginning.

- e Set INITIAL\_JOB\_SETUP\_CONNECTION\_01\_RUN to Y. If you have more than one source, create (if necessary) and set to Y a parameter named INITIAL\_JOB\_SETUP\_CONNECTION\_xx\_RUN (where xx = the source number) for each INITIAL\_JOB\_SETUP\_CONNECTION\_xx source that has already been historically loaded.
- f **\*\*\*Very 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). Then set INITIAL\_JOB\_SETUP\_DATE to the current date.
- g Change INITIAL\_JOB\_SETUP\_ENABLED to Y.
- h If you want to add an additional data source now, do the following:
  - Add the new source name to DAILY\_LOAD\_SOURCE\_Sxx (where xx represents the next number in the sequence).
  - Add the new source name to HIST\_LOAD\_SOURCE\_Sxx (where xx represents the next number in the sequence).
  - Add the new source name to INITIAL\_JOB\_SETUP\_CONNECTION\_xx (where xx represents the next number in the sequence).
  - Add a new INITIAL\_JOB\_SETUP\_CONNECTION\_xx\_RUN (if it doesn't already exist) and set its value to N.
  - Add a new INITIAL\_JOB\_SETUP\_CONNECTION\_xx\_TYPE (if it doesn't already exist) and set its value to either EE or SE depending on which type your financials system for that source is.
- i In the Scheduler, run the INITIAL\_JOB\_SETUP job.
- j The list of History and Daily jobs will have been re-written by the INITIAL\_JOB\_SETUP job. Now 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).
- k 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.
- l If you have added a new data source, go back 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.

### Fixing Existing SE Accounts Receivable (AR) Data

If you have SE sources and use the AR module, you will have to run the job named JOB\_FOR\_QBI\_640 once for each SE source to correct improper AR aging calculations that were not taking into account the CLOSED status of an invoice. The AR Aging calculations for open amounts no longer include any unpaid remainders from closed invoices.

To run the job to correct existing data:

- 1 Set the parameter `AR_PROCESS_CONNECTION_NAME` to an SE source connection name.
- 2 In the `QAD_MASTER` connection, set the connection to the SE source with the appropriate extract id and password.
- 3 Run the job `JOB_FOR_SE_QBI_640` in the Scheduler.
- 4 Repeat for each SE source connection (if you have multiple SE sources).

### Run the Upgrade Script in SQL Server

A new dimension, `dim_expected_pay_date`, has been linked to the Accounts Payable and Accounts Receivable fact tables. In order to set the correct dimension key in the fact tables for existing rows, you must run a script in SQL Server as follows:

- 1 Log in to SQL Server studio.
- 2 Connect to the BI datawarehouse database and run the `v34to341_metadata_post_upgrade.sql` (found in the BI Portal `install\sqlserver` directory).

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

### Update Portal Documentation and Standard Objects

To install the latest metadata documentation into your BI Portal, unzip the latest `qadbi-documentation.zip` into your `TOMCAT_HOME\webapps\your_bi_appname\documentation` directory, overwriting the previous suite subdirectory and its contents.

To install the latest BI Portal standard objects, copy the `qad_standard_items.zip` file into your `TOMCAT_HOME\webapps\your_bi_appname\export` directory. Then, in the BI Portal, log in as an Administrator. Go to the Administration -> Data Migration screen, click on the Import tab, click the radio button in front of "File on server" and enter in the box the file name `qad_standard_items.zip`. If you do NOT check the "Update existing records" box, only new objects will be imported; any of your current QAD Standard Objects will not be modified. To update the existing objects, check the "Update existing records" box. (You might want to export all objects prior to this step, so that you have a backup prior to updating existing records.)

# Release Notes for Release 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

<b>Component</b>	<b>Issue ID</b>	<b>Description</b>
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:
  - m The documentation directory (if you had installed the Analytical Module documentation that comes with the metadata).
  - n The published directory (if you had installed the Excel spreadsheets for accessing cubes that comes with the metadata).
  - o Any images in the images directory.
  - p 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 3.3.2

**QAD Business Intelligence Version:** 3.3.2

**Date:** December 2010

QAD BI 3.3.2 fixes an issue with the Portal's security builder.

## Fixes

Component	QAD Issue	Customer Case	Description
Portal	QBI-556		Security models built on a dimension using an "IN" clause were incorrectly building with a "NOT IN" instead. This has been corrected, and models can be built properly.

## Known Issues

- The BI Portal application cannot run in the same instance of Tomcat as QXTend. (QBI174)
- Model changes in RED 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)
- The server-config.xml file includes user and password information for connecting to the QAD BI Portal database. Please secure this file properly with file system permissions. (QBI-176)

# Release Notes for Release 3.3.1

**QAD Business Intelligence Version:** 3.3.1

**Date:** November 2010

QAD BI 3.3.1 adds new information in the Inventory warehouse module and a few minor fixes for the BI Portal.

## New Feature Summary

### Modules

**Inventory:** The inventory schema has been extended to include the following new measures:

- Average daily issued quantity and value historical: these columns contain the quantities of inventory issued during a period, and the value of that inventory based on standard costs for the items in the inventory being collected.
  - average\_daily\_issued\_quantity\_historical
  - average\_daily\_issued\_value\_historical
- Days on hand historical: inventory projected days on hand based on historic usage information for the inventory. Period calculations for inventory usages are used to project the amount of available inventory.
  - days\_on\_hand\_historical
- Days on hand projected: projected amount of inventory on hand based on demand records recorded for that inventory. This value is recalculated daily to give accurate measures of inventory requirements.
  - days\_on\_hand\_projected

**Multi-measure cubes:** Three new Multi-measure cubes have been added. These cubes cover Inventory, Purchasing and Sales. Each cube contains multiple fact tables from the module area, allowing the user to not only explore the fact tables themselves along many dimensions but to also relate the fact tables together inside an Excel pivot table.

### Fixes

Component	QAD Issue	Customer Case	Description
Portal	QBI-527		Visual items were taking up slightly more space in 3.3 than the same visual item in 3.2, causing some dashboards to align incorrectly. This has been corrected.
	QBI-526		In some instances, editing a query in advanced mode did not allow the user to press the “next” button. This kept the user from assigning types to the columns in the advanced query. This is now corrected and the wizard button is always available.
	QBI-525		Using an advanced query that had multiple parameter values would cause a failure in the report designer when operating with that query.
Modules	QBI-475, QBI-476		The daily date roll stored procedure was not properly setting the YTD, MTD and QTD fields correctly. These calculations have all been updated to be correct.
	QBI-536		Item standard costs were not always updating in daily loads. This has been corrected: an item’s cost is now always loaded in daily runs.
	QBI-485, QBI-486		Problems during load could occur with very long holiday descriptions, or merged holiday name and description fields.

Component	QAD Issue	Customer Case	Description
	QBI-490		Indexes for all dimensional joins on fact tables have now been added in the data warehouse.
	QBI-506		The default setting for an installations snapshot table summaries is now set to monthly (M) rather than weekly (W). This default setting is more appropriate for most customers, and uses far less disk space.
	QBI-535		Unit costs on shipments are now correctly calculated on shipments when the item being shipped is a kit, not an individual item.
	QBI-537		Some display names in AP Voucher History, AP Invoice Snapshot and OM Order History have been changed to reflect a consistent naming standard for the costs and the currency in which they have been represented.
	QBI-495		An item's weight (net_weight) and unit of measure for the weight (net_weight_um) has been added to the dim_item dimension.
	QBI-509		The financial report generator tables would mistakenly enter many rows for line items in some cases. While this was often benign, the multiple rows were confusing and this behavior has been removed.
	QBI-538		GL accounts that are handled with fiscal period accounting were not properly resetting to zero balances in a new fiscal accounting period. This is now corrected. Accounts can be reset if they are of specific types. See the parameter information in the data warehouse for more information.
	QBI-545		AR and AP aging calculations would be off for records that did not change during a new period. This release fixes the problem, properly aging records even if they do not change in the source system.

## Known Issues

- The BI Portal application cannot run in the same instance of Tomcat as QXTend. (QBI174)
- Model changes in RED 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)
- The server-config.xml file includes user and password information for connecting to the QAD BI Portal database. Please secure this file properly with file system permissions. (QBI-176)

# Release Notes for Release 3.3

## QAD Business Intelligence Version: 3.3

**Date:** September 2010

QAD BI 3.3 continues the evolution of QAD business intelligence to bring more modules for analysis and an improved portal with which to explore that data. The data warehouse has been extended to include Purchasing and Inventory schema sets. Extensions in the portal make creating dashboards and reports even easier. The addition of collaboration to the portal changes the user's interactions from reading data into discussion, analysis, and decision making.

## New Feature Summary

### Portal

- Collaboration: allows users to have a discussion on a dashboard or its contents, or any other subject, directly in the Portal application.
- Impact analysis: track where any query or visual item is used in the environment, and go directly to the item editor to make changes. This is exposed in a new tab on the item in the library view called "Referenced By."
- Edit in place: quickly and easily move inside the designers to a component item, jumping to the editor directly. All visual components have a new "information" icon in the upper right corner that shows details about the item.
- Report modifications: Reports are easier to create and run, with more control over parameter positions, report titles and formatting.
- Query Editor enhancements: data can be exported directly to Excel, a count of rows from each query is returned, and a new Test Run button allows for quick testing of a query.

### Modules

- Inventory: inventory transactions and monthly summary schema sets have been added to the Operations module
- Purchasing: bookings, order history and receipts schema sets added to the finance module
- A new, QAD branded data warehouse designer

### Fixes

Component	QAD Issue	Customer Case	Description
Portal	QBI-204		Clicking on a folder in the repository browser would sometimes cause the application to take a long time to display folders. This has been corrected.
	QBI-217, 220, 223		The portal's freeform item editor has been redesigned to allow easier and more functional creation of freeform items.
	QBI-238		Internet Explorer would fail to export reports in PDF or Excel format if the BI portals's tomcat server was not in the list of trusted sites. This has been corrected. Please note that File Download and Automatic Prompting for file download should be enabled in Internet Explorer. Typically these options are automatically enabled if the Portal server is included in the user's Trusted Sites or Local Intranet security zone.

Component	QAD Issue	Customer Case	Description
	QBI-333		The parameter selection box now allows the user to type in a value. As the user types into the control, the list of parameters that start with the data being input are displayed in a selection list. The user can either type in the full value, or use one of the values from the displayed selection list.
	QBI-344		Report output in Excel format now correctly places output into Excel rows and columns so that the data can be easily sorted, filtered and otherwise manipulated.
	QBI-269		The Portal's query designer can export the results of a query run to Excel format, allowing the user to run ad-hoc queries and examine the results directly in Excel.
	QBI-318		All designer views now show the full path of the item being edited in the upper right of the item view. This information is presented when the user presses the blue "information" icon in the upper right.
	QBI-426, 166		If a report is selected from the Portal with all parameters filled in, or no parameters required at all, the report runs immediately. There is no need for the user to press the run button. Reports that return no information display a status message that no data was returned. Report parameter selections have been moved from a pane at the top of the screen to the left side to allow the user to see all available report parameters without resizing the report parameter selection pane.
	QBI-66		Selected parameter values can be included in the title of the report. To do so, give the name of the parameter in the title surrounded by P{ }. For example, a parameter named 'Territory' could be displayed in the report title with a string like this: Open inventory amount: P{Territory}
	QBI-382		Items in the designer libraries can now be moved from folder to folder, rather than just copied and the deleted from the source folder.
	QBI-232		When creating a chart style visual item the user can now select one of a set of dimension values in the query to use as the X axis for the chart. This allows the user to easily select dimension values such a month number in year (1 to 12) and month name, sort on the former and display the latter.
	QBI-381		Selections of a column in a grid and report now default to the format of that column as populated in the metadata.
Modules	QBI-3		The internal permanent storage table 'perm_item_master' was visible to the user in the BI Portal. This has been adjusted so this table does not appear in the Portal's query designer.
	QBI-260		Documentation has been expanded for all fact and dimension tables. This documentation is available as a link off the Portal's "Welcome" dashboard and is included in the metadata release package.
	QBI-387		The CFO dashboard in the Portal uses fact_gl tables. These tables are populated with metrics of interest to those examining the general ledger and require modification at installation time. Documentation for these modifications is now given in the installation guide. See the section on installing the CFO dashboard.
	QBI-29		OM Shipments (fact_om_shipment) now has valid data for the effective date column. This information was not correctly populated in earlier data warehouses.
	QBI-401	CA785678	Added the sales person assigned to a customer into the customer dimension view. Expanded the AR fact tables to show the 4 sales people assigned to a receivable.
	QBI-369, 363		Added required date to order management shipment and performance fact tables. The required date can be used to determine if the order was shipped on or before the date that the receiver required the shipment.

Component	QAD Issue	Customer Case	Description
	QBI-430, 421		A number of problems with columns used by the metadata that do not exist in some SE source systems have been corrected. Notably, the tr_hist.tr_qty_cn_adj column is now properly handled in SE and EE databases.
	QBI-381		The portal's grid and report column formats now default to the metadata's format. The format values for all end user visible columns have been modified to properly show data formats that the BI portal can use.

## Known Issues

- 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 RED 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)
- The server-config.xml file includes user and password information for connecting to the QAD BI Portal database. Please secure this file properly with file system permissions. (QBI-176)

# 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.