QAD Enterprise Applications
Enterprise Edition

Training Guide

Database Conversion

70-3239-2013EE
QAD 2013 Enterprise Edition
April 2013

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Change Summary

The following table summarizes significant differences between this document and the last published version.

Date/Version	Description	Reference
April 2013/2013 EE	Rebranded for QAD 2013 EE	---
	Numerous editorial changes	---
October 2012/2012.1 EE	Updated page	Page 17, Page 105
April 2012/2012 EE	Updated screen shot	Page 116
	Added new page to document new screen	Page 117

About This Course

Course Description

This course is designed to build your expertise in installing, configuring, and maintaining QAD Enterprise Edition. It consists of the following modules:

- Overview
- Pre-conversion
- Conversion Execution
- Post-conversion.
- Upgrade

Course Objectives

By the end of this class, students will:

- Understand the QAD Enterprise Edition conversion process
- Be able to perform pre-conversion tasks
- Know how to execute a conversion
- Troubleshoot and solve common conversion issues
- Be able to complete post-conversion tasks.

Audience

This course is intended for system administrators and other technical users who will be converting QAD Enterprise Edition products.

Prerequisites

This course requires experience in database administration and familiarity with QAD Enterprise Edition products.

Virtual Environment Information

The hands-on exercises in this book should be used with the QAD 2013 Enterprise Edition training environment specified by your instructor.

QAD Web Resources

From QAD's main site, you can access QAD's Learning or Support sites.

http://www.qad.com/

Chapter 1

Conversion Overview

Agenda

Agenda

- Introduction and overview of the conversion process
- Pre-conversion
  - Overview and practical exercise
- Conversion execution
  - Overview and practical exercise
- Post-conversion
  - Overview and practical exercise
- QAD EE Upgrade
  - Overview and practical exercise

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Essential Skills

Essential Skills

- System maintenance (for example, adding menu items and custom programs)
- How to start/stop AdminServer, AppServers, and NameServers
- Basic Progress DBA skills (probkup, prorest, dump and load)
- Familiar with Linux/HP-UX and command line navigation

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Recommended Skills

Recommended Skills

- Familiar with Progress database administration – DB tuning parameters
- Basic Progress coding skills for debugging - simple Progress queries
- Basic Tomcat administration skills (start, stop, install, and change ports/permissions)
- Familiar with X-windows/VNC server

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Prerequisite Training

Prerequisite Training

QAD EE Installation and Administration

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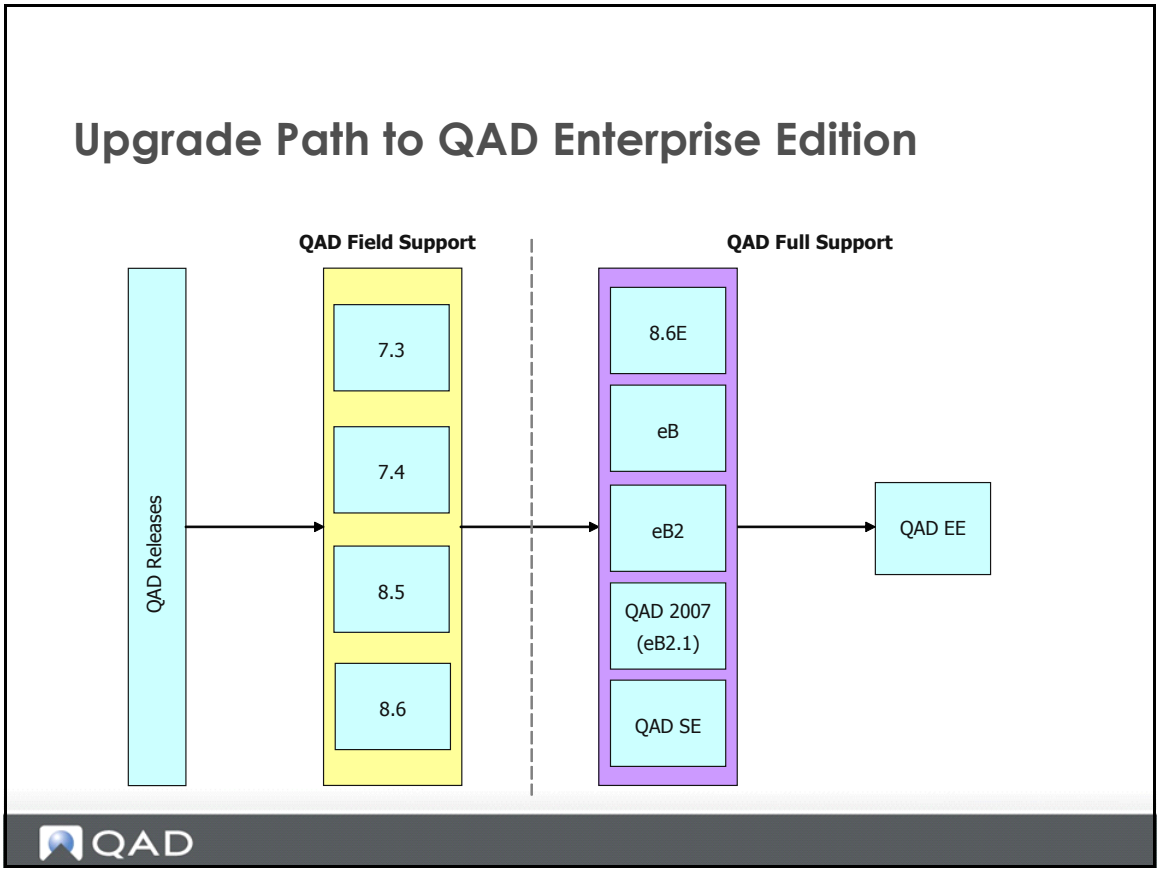
Upgrade Path to Enterprise Edition



Note

Note

- More complex than previous conversions
  - Due to new QAD EE Financials
  - Requires Services engagement
- Requires input from the following areas
  - Non-technical business analysts / finance managers
  - Engineers
  - Project managers

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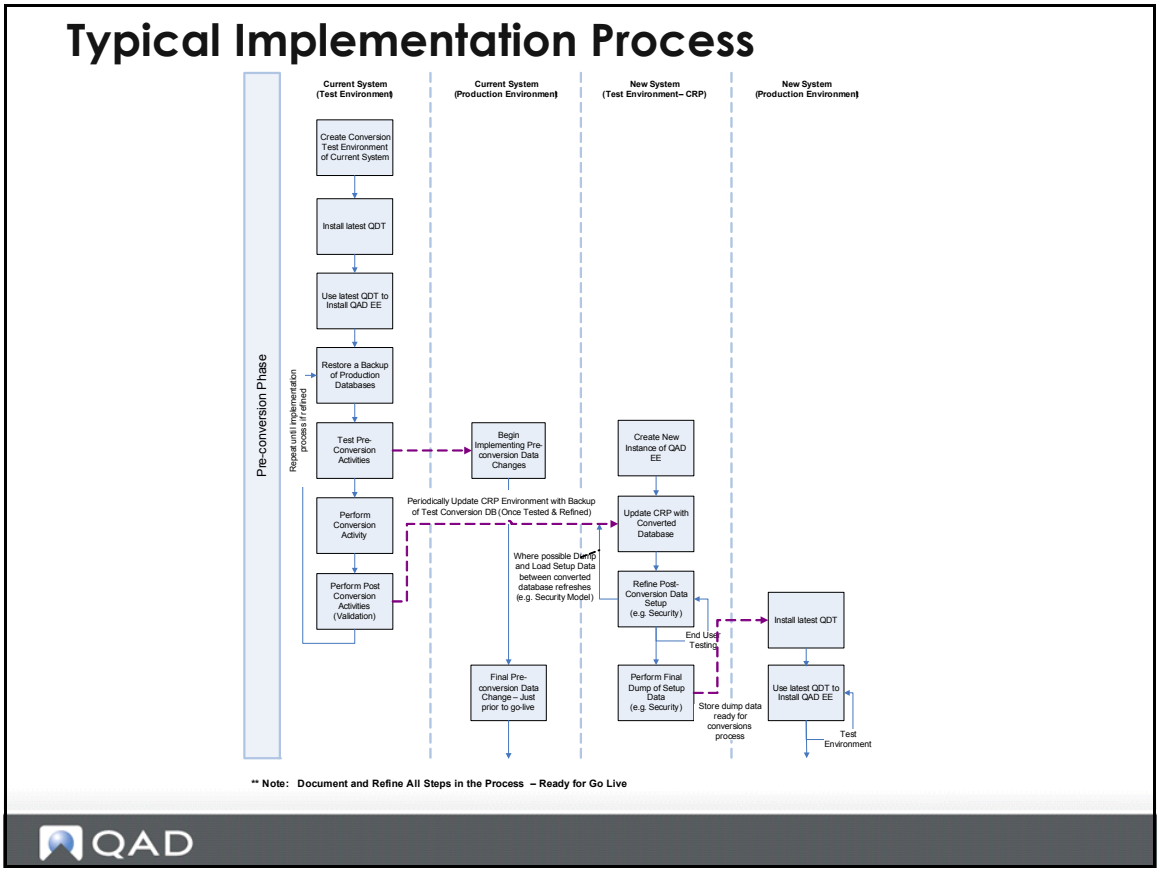
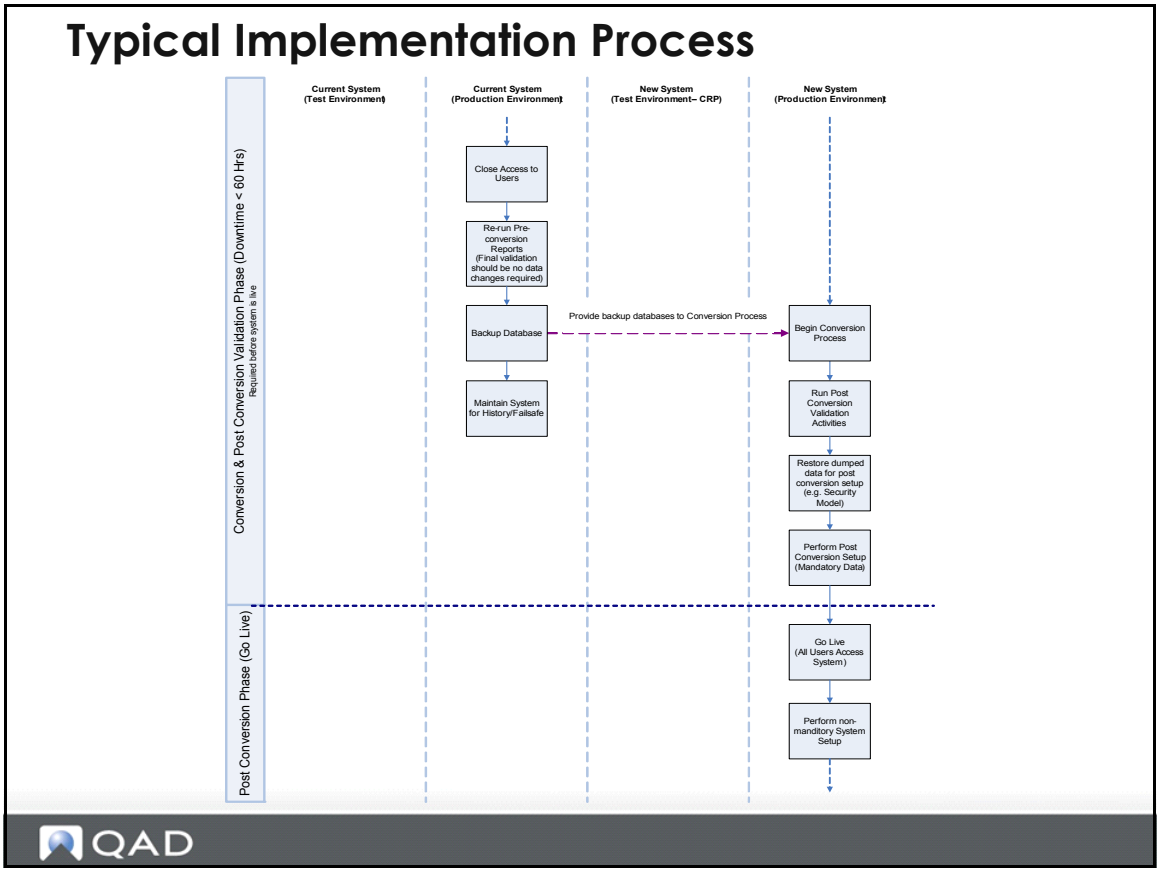
Typical Implementation Process



Typical Implementation Process 2



Conversion Benchmark Data

Customer Conversion Execution Benchmark Performance (from eB2)

- Original DB size was approximately 30 GB
  Reduced to approximately 20 GB after Archive/Delete
- Approximately 22 hours (see below)
- After conversion, the DB size was 30 GB

Step	Time	Comments
Compile	3 minutes	8 threads
Buffer Copy	7 hours and 1 minute	
Index rebuild	1 hour39 minutes	
Operational Conversion	24 minutes	
Fin static data conv	44 minutes	
Fin trans data conv		
Invoice History Conv	1 minute	485,317 records (6,933.10 records per min)
GL Posting	6 hours 8 minutes	22,364,266 records (1012.14 records per min
AR Invoices	1 hour 21 minutes	456,061 records (93.36 records per min)
AP Invoices	1 hour 27 minutes	352,965 records (67.53 records per min)
AR Payment	1 hour 38 minutes	367,476 records (62.22 records per min)
AP Payment	45 minutes	363,647 records (132.72 records per min)

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Benchmark Hardware

Benchmark Hardware

- Dell PowerEdge 2950

  2 x Intel® Xeon® CPU E5440 2.83 GHz Front Size Bus 1333
- Memory

  16 GB DDR2 667 MHz RAM
- Network adapter

  Gigabit Ethernet NIC
- Hard drive
  - 8 x 73 GB SAS 15K disks
  - RAID 0 (striped)

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Benchmark Software

Benchmark Software

- Red Hat Linux Enterprise Server release 5.1 (Tikanga)
  Kernel 2.6.18-8.e15 (64-bit)
- Progress OE10.2B (32-bit)

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Conversion Assessments

Conversion Assessments

- Conversion execution software is not automatically shipped with the standard QDT release
  - Pre-conversion code is shipped
- Customer must first complete a Conversion Assessment form
  - A number of questions regarding the client's implementation
  - Send to conversions@qad.com
  - Assessment is made and then authorization given to download conversion-enabled QDT
- Conversion Assessment Objectives
  - To help the conversion team understand the customer's setup
  - Help identify any conversion-related risk areas
    - (Green) Source versions previously tested and successfully converted
    - (Amber) Source versions previously tested and successfully converted, but certain modules have not been tested before
    - (Red) Source versions have not been tested before and the database should be converted in-house first for any potential issues

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Conversion Process Summary

Summary of Conversion Process

- Pre-conversion reports and data changes
- Conversion execution process
- Post-conversion validation
- Post-conversion set up
  - Mandatory set up
  - Non-mandatory set up

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QAD EE Upgrades

QAD EE Upgrades

- Involve upgrading an existing QAD EE system to a later QAD EE system
  - For example, QAD 2012 EE to QAD 2013 EE
- Requires a new QDT
  - Via the standard approval process
- No pre-conversion work is necessary
- Far simpler process and less intrusive than pre-EE conversions

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Chapter 2

Pre-conversion

Pre-conversion Overview

Pre-conversion Overview

Pre-conversion activities prepare the source database for conversion by correcting the following types of issues:

- Data that is missing from the old Financials, but required in QAD EE Financials
- Data that exists in the old Financials, but is not allowed in the same state in QAD EE Financials
- Data that is invalid in both the old and new Financials

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Pre-conversion Steps

Overview of Pre-conversion Steps

1. Prerequisites
2. Data preparation
3. Conversion preparation
4. Standard period closing reports

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Prerequisites

1 Prerequisites

Step Seq	Step Name	File Name	MFG/PRO Release
	Prerequisites		
1.1	**Table Extension Domain Fixes (2) - Part 1 of 2**	utqtabs.p & utqtplsd.p	eB2.1
1.2	**Data Reduction**	various	
1.3	**GTM Conversion**	various	8.6e, 9.0

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Data Preparation

2 Data Preparation

Step Seq	Step Name	File Name	MFG/PRO Release
	Data Preparation		
2.1	**Employee Entity Utility**	uxempent.p	All
2.2	**End User Contact Utility**	uxendupd.p	All
2.3	**Control Account Utility**	uxctrl.p	All
2.4	**GL Account / Project Utility**	uxplproj.p	8.6e and 9.0
2.5	**Orphaned Address Utility**	uxaddrfix.p	All
2.6	**Credit Terms Utility**	uxcrterms.p	All
2.7	**Data Preparation Report**	gpdatarp.p	All
2.8	**Fix Errors reported in Data Prep Report**	N/A	All
2.8a	**Country Code Utility**	uxctryup.p	All
2.8b	**Tax ID Utility**	uxtaxid.p	All
2.9	**Search & Replace**		eB2.1
2.9a	**Duplicate Code Report**	utsarrp1.p	
2.9b	**Code Usage Report**	utsarrp2.p	
2.9c	**Replace Code**	utsarrp3.p	
2.10	**GL Account Type Utility (Update = No)**	uxglacup.p	All
2.11	Repeat steps 2.6 through 2.8b until all errors fixed		All

Conversion Preparation

3 Conversion Preparation

Step Seq	Step Name	File Name	MFG/PRO Release
	Conversion Preparation		
3.1	**Conversion Parameter Utility**	utfinpar.p	All
3.2	**Process pending transactions**	various	All
3.3	**Close-off the Production database to new data/transactions**		All
3.4	**Run GL Account Type Utility** (Update = Yes)	uxglacup.p	All
3.5	**Converted GL Account Definition Report** (optional)	glacdfrp.p	All
3.6	**Rerun Data Preparation Report**	gpdatarp.p	All
3.7	**Pre-conversion Integrity Report**	gpinckrp.p	All
3.7a	**GL Transaction Integrity**		All
3.7b	**AR Transaction Integrity**		All
3.7c	**AP Transaction Integrity**		
3.8	**Finalize Data Preparation Report**	gpdatarp.p	All

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Run Standard Reports

4 Run Standard Reports

Step Seq	Step Name	File Name	MFG/PRO Release
	Run Standard Closing Reports		
4.1	**Trial Balance**	25.15.4 - gltbrp.p or 25.15.5 - gldtbrp.p	All
4.2	**Balance Sheet**	25.15.8 - glbsrp.p	All
4.3	**Income Statement**	25.15.13 - glinrp.p	All
4.4	**AR Aging As of Effective Date**	27.18 - arcsrp05.p	All
4.5	**AP Aging As of Effective Date**	28.17.6 - apvorp04.p	All
4.6	**AR Tax by Tax Rate**	2.13.15.14 - txarrp01.p	All
4.7	**AP Tax by Tax Rate**	2.13.15.17 - txaprp01.p	All
4.8	**AR Balance Report**	27.20 - arcsrp.p	All
4.9	**Inventory Valuation Report**	3.6.13 - ppptrp03.p	All
4.10	**Unvouchered receipts report**	5.13.10 - poporp11.p	All
4.11	**Purchase receipt Report**	5.13.5. - poporp06.p	All
4.12	**Asset Owned Report**	32.5.11 - faaorp.p	All
4.13	**Sales Order Report**	7.15.1,2,3 - sosorp.p, sosorp01.p, sosorp02.p	All

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Pre-conversion Activities

Pre-conversion Activities

- All pre-conversion reports and utilities run in a character environment only
- All text is in English; no translations available.
- Programs do not appear on any menus. Invoke them by typing the program name at any MFG/PRO menu command line.
- Programs do not support CIM
- You cannot run programs in batch mode
- The source code is version neutral. Supports:
  - MFG/PRO versions 8.6E through QAD Standard Edition
  - Progress versions 8.3e through OpenEdge 10.x or later

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Pre-conversion Activities 2

Pre-conversion Activities

- Table Extension Domain Update Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- End User Contact Utility
- Control Account Utility
- GL Account/Project Utility (if pre-eB)
- Orphaned Address Utility
- Credit Terms Utility

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Pre-conversion Activities 3

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility (Report mode)
- Process pending transactions
- Close database to users
- Rerun GL Account Type Utility (Update mode)
- Converted GL Account Definitions Report (optional)
- Pre-conversion Integrity Report
- Rerun Data Preparation Report
- Run standard period closing reports

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Pre-conversion Activities 4

Pre-conversion Activities

- **Table Extension Domain Utilities** (eB2.1 and above, including Standard Edition)

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Table Extension Domain Utilities

Table Extension Domain Utilities

- Only required for customers converting from eB2.1 and above, including Standard Edition
- You must update selected table extension (qtbl_ext) records with domain information before running the conversion
  - utqtabs.p – Covers supplier lots on shippers
  - utqtplsd.p – Covers Expense Due account in Sales Account Maintenance (1.2.17 – ppplsmt.p)
- You must run utilities even if these features are not used

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Table Extension Domain Utilities 2

Table Extension Domain Utilities

- Provides simulation mode for update preview
- One execution of each utility processes all active domains
- You can only run each utility once in update mode
- The impact of these utilities on future transaction processing is determined by how extensively they are used. If supplier lots in shippers is used, the supplier lot is obtained from the correct domain.

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GL Transaction Consolidation

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- **GL Transaction Consolidation (optional)**

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GL Transaction Consolidation 2

Pre-conversion Activities

- **GL Transaction Consolidation**
  - Be careful with this! Do it by period, not account, and preferably by month as opposed to by year. If done by year, any given account will have an opening balance but zero period amount for any period other than the period for the consolidation effective date.

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Archive/Delete Transaction Data

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- **Archive/Delete transaction data (optional)**

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Global Tax Management Conversion

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- **Global Tax Management Conversion** (if pre-eB)

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Employee Entity Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- **Employee Entity Utility**

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Employee Entity Utility 2

Employee Entity Utility

- QAD EE requires every employee (emp_mstr) to have an entity code
- This utility reports and updates employees with a user-specified entity code. Shows employees missing an entity code and employees already assigned an entity code.
- You can run the utility for a range of employees when you must assign multiple entity codes
- The utility provides a simulation mode that previews the effect of the update
- For eB2.1 and above, including Standard Edition, you must run it for each active domain
- This utility has no impact on future transactions; it updates an unused QAD reserved field in emp_mstr.

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Employee Entity Utility 3

Employee Entity Utility

- Type uxempent.p at any MFG/PRO menu command line
- Report name is uxempent-<*dbname*>-<*domain*>-<*date*>_<*time*>.prn

```
DOM1 USD DB NY [USD]                          Employee Entity Utility
Page     1                                              DOM1 USD DB NY
                                  * * * * * * * * * * S I M U L A T I O N * * * * * * * * * * *


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/ConvQA,-
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/qaadmdb
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro/92bdb/devhelp/dev


Domain: "Domain1"

       Employee First Name       Last Name        Entity   Entity Name
       -------- ---------------- ---------------- -------- ------------------------------------
       2550                                       1000     Test Company Primary
       7000     Wright           Ed               1000     Test Company Primary
       8000     Jones            Earl             1000     Test Company Primary
       8001     Wood             Susan            1000     Test Company Primary
       8002     Evans            Michael          1000     Test Company Primary
       8003     Round            Robert           1000     Test Company Primary
       8004     Lake             Ed               1000     Test Company Primary
       8005     Bligny           Pierre           1000     Test Company Primary
```

End User Contact Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- **End User Contact Utility**

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End User Contact Utility 2

End User Contact Utility

- QAD EE requires every end user (eu_addr) to have a single primary contact with a unique contact name
- This utility reports and updates end users missing a contact name or primary contact when possible. Some errors must be manually corrected through End User Maintenance (11.9.1 – adeumt.p)
- The utility lists end users with duplicate contact names, multiple primary contacts, or end users missing contacts
- The utility provides a simulation mode to preview the effect of the update
- For eB2.1 and above, including Standard Edition, one execution processes all active domains
- This utility can impact future processing by causing the contact names and primary contact designations to differ from those in previous transactions

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End User Contact Utility 3

End User Contact Utility

- Type uxendupd.p at any menu command line
- Report name is uxendupd-<*dbname*>-<*date*>_<*time*>.prn

```
DOM1 USD DB NY [USD]                        End User Contact Utility                                        Date:
Page     1                                                                                                  Time:
                                  * * * * * * * * * * S I M U L A T I O N * * * * * * * * * *


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/ConvQA,-trig triggers,-H coli4
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/qaadmdb,-trig triggers,-H col
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro/92bdb/devhelp/devhelp92b,-trig triggers

DOM1 USD DB NY [USD]                        End User Contact Utility                                        Date:
Page     2                                                                                                  Time:
                                  * * * * * * * * * * S I M U L A T I O N * * * * * * * * * *

Domain: Domain1

Customer Customer Name                End User Contact Name                          Type Message
-------- ---------------------------- -------- ---------------------------------- ---- --------------------------------
SSM1001  SSM CUSTOMER 1               Endsm101 Mike                                      Contact name assigned
SSM1001  SSM CUSTOMER 1               Endsm101 Mike                                      ERROR: Primary Contact missing
SSM1001  SSM CUSTOMER 1               Endsm102 End User                              P   ERROR: Duplicate contact name
SSM1001  SSM CUSTOMER 1               Endsm102 End User                                  ERROR: Duplicate contact name
SSM1001  SSM CUSTOMER 1               Endsm102 End User                              P   ERROR: Multiple Primary Contacts
SSM1001  SSM CUSTOMER 1               Endsm102 End User2                             P   ERROR: Multiple Primary Contacts
```

Control Account Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- End User Contact Utility
- **Control Account Utility**

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Control Account Utility 2

Control Account Utility

- Conversion routines must know which accounts are currently used as Accounts Receivable and Accounts Payable control accounts
- The conversion will not attempt to determine this information programmatically because accounts not referenced on customers, suppliers, or transactions could be overlooked
- The user is prompted to input lists of account codes currently used as these control accounts
- Output from the utility is used by GL Account Type Utility, Data Preparation Report, and during the conversion
- For eB2.1 and above, including Standard Edition, you must run it for each active domain
- This utility has no impact on future processing. It only creates qad_wkfl records.

QAD

Control Account Utility 3

Control Account Utility

- Type uxctrl.p at any menu command line
- Report name is uxctrl-<*dbname*>-<*domain*>-<*date*>_<*time*>.prn

```
DOM1 USD DB NY [USD] .0 M                          Control Account Utility
Page:    1                                             DOM1 USD DB NY


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/:

Domain: Domain1

Type     Account  Description
-------- -------- ------------------------
AP       2100     Accounts Payable

AR       1200     Accounts Receivable
```

QAD

GL Account/Project Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- End User Contact Utility
- Control Account Utility
- **GL Account/Project Utility (if pre-eB)**

QAD

GL Account/Project Utility 2

GL Account/Project Utility

- Before eB, project codes were not part of the GL posting account structure. Therefore, project codes were not defined for ranges of account codes.
- Conversion routines must know which accounts will use project codes as part of the GL posting account structure in QAD EE. Users on versions before eB must manually provide this information using the pre-conversion GL Account/Project Utility
- The user is prompted to input ranges of account codes that will use project codes in QAD EE
- This utility has no impact on future processing. It only creates qad_wkfl records.

QAD

GL Account/Project Utility 3

GL Account/Project Utility

- Type uxglproj.p at any MFG/PRO menu command line
- Report name is uxglproj-<*dbname*>-<*date*>_<*time*>.prn

```
mfmenu                                          GL Account/Project Utility
Page     1


Source Code Version(s): 1.2 (uxglproj.i)

Connected Databases:
    Database name: play90sp7; DB Version: 8; Connection parameters: -db /databases/83e/play90sp7,-N tcp,-H arli10,-S pla
    Database name: qadhelp; DB Version: 8; Connection parameters: -db /databases/83e/help90sp7,-ld qadhelp,-N tcp,-
    Database name: qadgui; DB Version: 8; Connection parameters: -db /databases/83e/gui90sp7,-ld qadgui,-N tcp,-H
    Database name: qadcf; DB Version: 8; Connection parameters: -db /databases/83e/cfg90sp7,-ld qadcf,-N tcp,-H arl

Account  Account
-------- --------
1040     5300
6100     7000
8200     8300
```

QAD

Orphaned Address Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- End User Contact Utility
- Control Account Utility
- GL Account/Project Utility (if pre-eB)
- **Orphaned Address Utility**

QAD

Orphaned Address Utility 2

Orphaned Address Utility

- All customer, supplier, end user, and remit-to addresses must have a related List Type Master (ls_mstr) to be converted.
- This utility reports and creates missing List Type Masters (ls_mstr) in the following scenarios:
  - A customer exists (with cm_mstr and ad_mstr), but no List Type Master record for customer
  - A supplier exists (with vd_mstr and ad_mstr), but no List Type Master record for supplier
  - An end user exists (with eu_mstr and ad_mstr), but no List Type Master record for enduser
  - A supplier exists, and has a reference to a remit-to address (vd_remit <> "") which has valid address, but no List Type Master record for the remit-to address

QAD

Orphaned Address Utility 3

Orphaned Address Utility

- The utility provides a simulation mode to preview the effect of the update
- For eB2.1 and above, including Standard Edition, one execution processes all active domains.
- This utility can impact the system by making previously unusable addresses usable

QAD

Orphaned Address Utility 4

Orphaned Address Utility

Report output filename is uxaddrfix-<*dbname*>-<*date*>_<*time*>.prn

```
DOM1 USD DB NY [USD]                                Orphaned Address Utility
Page     1
                                        * * * * * * * * * * S I M U L A T I O N


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr0
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qa

Domain: Domain1

Address   Type     Name
--------- -------- ----------------------------
5001      remit-to Acme Parent Co.
```

Credit Terms Utility

Pre-conversion Activities

- Table Extension Domain Utilities (eB2.1 and above, including Standard Edition)
- GL Transaction Consolidation (optional)
- Archive/Delete transaction data (optional)
- Global Tax Management Conversion (if pre-eB)
- Employee Entity Utility
- End User Contact Utility
- Control Account Utility
- GL Account/Project Utility (if pre-eB)
- Orphaned Address Utility
- **Credit Terms Utility**

QAD

Credit Terms Utility 2

Credit Terms Utility

- This utility reports and updates credit terms on customers and suppliers. It lists customers or suppliers with invalid credit terms.
- All customers and suppliers must have a valid non-blank credit terms code before converting to QAD EE
  - A blank credit terms code is no longer permissible and will be deleted by the conversion

    To simulate the scenario where a customer or supplier has no credit terms, a new credit terms code must be created in Credit Terms Maintenance (2.19.1 – adcrtmt.p) with 0 days and 0% discount.
  - Any credit term assigned to customers or suppliers must exist in Credit Terms Master (ct_mstr)

QAD

Credit Terms Utility 3

Credit Terms Utility

- You must run the utility separately for customers and suppliers
- Customer and supplier credit terms are updated with a user-specified code
- The utility provides a simulation mode to preview the effect of the update
- For eB2.1 and above, including Standard Edition, you must run it for each active domain.
- This utility will alter future transactions involving the customers or suppliers updated with new Credit Terms

QAD

Credit Terms Utility 4

Credit Terms Utility

Report output filename is
uxcrterms-cust-*<dbname>*-*<domain>*-*<date>*_*<time>*.prn
or
uxcrterms-supp-*<dbname>*-*<domain>*-*<date>*_*<time>*.prn

```
DOM1 USD DB NY [USD]                          Credit Terms Update Utility
Page     1                                                 DOM1 USD DB NY
                                   * * * * * * * * * * S I M U L A T I O N * * *


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data,
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpr

Domain: Domain1

Supplier         Name                          Old Credit Term New Credit Term
---------------- ----------------------------- --------------- ---------------
10074-SU         Consignment III Primary       90              60
3010             Page Inc.                     90              60
5010             Wholesale Supply Co.          90              60
Atsup            Audit Trail Supplier          90              60
EMTS02           EMT Wholesale Co.             90              60
EMTS03           EMT Trade Co.                 90              60
SFSUPP1          SF SUPPLIER1                  90              60
Sub#1            Sub-Contractor #1             90              60
```

Data Preparation Report

Pre-conversion Activities

- Data Preparation Report

QAD

Data Preparation Report 2

Data Preparation Report

- This report highlights any data issues you must clean up before starting the conversion
  - Data that is missing in old financials, but required in new financials.
  - Data that exists in old financials, but is not allowed in the same state in new financials.
  - Data that is invalid in both old and new financials
- This report is the gatekeeper for the conversion. The conversion cannot be run until this report has zero errors.
- You will probably need to run this report multiple times to resolve all errors
- For eB2.1 and above, including Standard Edition, one execution processes all active domains
- Running this report has no impact on future transaction processing

QAD

Data Preparation Report 3

Data Preparation Report

- Type gpdatarp.p at any MFG/PRO menu command line
- Report output filename is dataprep0#-*<dbname>*-*<date>*_*<time>*.prn and may have multiple segments.

```
gpdatarp                                    Data Preparation Report
Page      1


   Connected databases:
      Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92k
      Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92
      Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro/92bdk


   Total number of errors detected: 677


   Source Domain: "Domain1"


Start of detailed error report for Domain: "Domain1"

Number of errors detected for Domain "Domain1": 188

Error Count Detail:
   Validation: companyAddressExist; Field: si_site;      Error Count: 37
   Validation: mandatory;           Field: acdf_acct;    Error Count: 10
   Validation: mandatory;           Field: ad_state;     Error Count: 5
   Validation: mandatory;           Field: bk_bk_acct1;  Error Count: 3
   Validation: unlinkedAddress;     Field: ad_addr;      Error Count: 1
   7 Country Code errors detected. Please run Country Code Update Utility to fix them.
   51 Credit Terms errors detected. Please run Credit Terms Update Utility to fix them.
   31 Employee errors detected. Please run Employee Entity Utility to fix them.
   6 End User errors detected. Please run End User Contact Utility to fix them.
   37 Tax ID errors detected. Please run Tax ID Update Utility to fix them.

Fix the following with apbkmt.p - Bank Maintenance - 26.13
      Key Info: Bank = B2
         Field Name: bk_bk_acct1 - Bank Acct 1
         Context:    bk_bk_acct1 must have a value. Blank or ? value is not allowed
```

Data Preparation Report 4

Data Preparation Report

- New utilities are provided to assist with correcting some data errors
  - Country Code Utility – uxctryup.p
  - Tax ID Utility – uxtaxid.p
- These utilities are optional and are only used if indicated by the Data Preparation Report. However, you must run the reports to see a detailed listing of errors when noted
- If desired, you can individually correct country codes and tax IDs without using the utilities

QAD

Country Code Utility

Country Code Utility

- QAD EE requires that all addresses and employees have a non-blank, valid country code.
- This utility reports and updates the country code on addresses and employees (in same execution) having a blank or invalid country codes with a user-specified country code
- The report lists addresses and employees that were updated as well as those with invalid country codes

QAD

Country Code Utility 2

Country Code Utility

- You can specify a range of addresses (which also covers employees) when multiple country codes must be assigned
- The utility provides a simulation mode that previews the effect of the update
- For eB2.1 and above, including Standard Edition, you must run it for each active domain.
- This utility will potentially alter future transactions involving tax calculations due to the changed country code on customer, supplier addresses updated with new country codes

QAD

Country Code Utility 3

Country Code Utility

Report output filename is
uxctryup-<*dbname*>-<*domain*>-<*date*>_<*time*>.prn

```
DOM1 USD DB NY [USD]                          Country Code Update Utility
Page     1
                                  * * * * * * * * * * S I M U L A T I O N * * *


Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpr

Domain: Domain1

 Number of errors detected for Address: 7
Number of errors detected for Employee: 5

Address          Name                          Old Country Code New Country Code
---------------- ----------------------------- ---------------- ----------------
1                ATP Cust 1                    EL               cn
4020             SSC Inc.                      EL               cn
4021             BCA Company                   EL               cn
CN               Canadian Bank                 EL               cn
PCB              Pierre Bligny                 EL               cn
TRI-C5           Canadian Tri Customer         EL               cn
TRI-S5           Canadian Tri Supplier         EL               cn


Employee  First Name       Last Name        Old Country Code New Country Code
--------- ---------------- ---------------- ---------------- ----------------
2550                                                         cn
7000      Ed               Wright           EL               cn
8000      Earl             Jones            EL               cn
8001      Susan            Wood             OZ               cn
PCB       Pierre           Bligny           EL               cn
```

Tax ID Utility

Tax ID Utility

- QAD EE requires all suppliers for 1099 reporting (vd_1099 = true) have unique non-blank Federal tax IDs (ad_gst_id)

  Additionally, if Validate VAT Registration in Global Tax Management Control (2.13.24 – txtxcmt.p) is true, VAT registration IDs for customers and suppliers in EU countries must conform to the ISO format for their country

- This utility reports duplicate or missing Federal tax IDs and lists VAT registration IDs that do not comply with the ISO format, when applicable.

QAD

Tax ID Utility 2

Tax ID Utility

- If not using 1099 reporting, set this field to No in the utility and it will assign vd_1099 = false for all suppliers to reduce the number of Federal tax ID errors.
- If 1099 reporting is required, these errors must be manually corrected through Supplier Maintenance (2.3.1 – advnmt.p)
- The utility provides a simulation mode that previews the effect of the update
- For eB2.1 and above, including Standard Edition, you must run it for each active domain.
- The utility will impact only 1099 reporting for US-based users, and only when producing year-end 1099 forms.

QAD

Tax ID Utility 3

Tax ID Utility

Report output filename is
uxtaxid-<*dbname*>-<*domain*>-<*date*>_<*time*>.prn

```
uxtaxid                                    Tax ID Utility                                                    Date:     05/21/08
Page     1                                                                                                   Time:     13:21:05
                                  * * * * * * * * * * S I M U L A T I O N * * * * * * * * * *

Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /qad/mfgpro/92bdb/pubdb/test92b,-trig triggers,-H coli40,-S test9
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /dr01/92bdb/devhelp/devhelp92b,-trig triggers,-H coli40,-S devhe
    Database name: qadadm; DB Version: 10; Connection parameters: -db /qad/mfgpro/92bdb/pubdb/adm92b,-trig triggers,-H coli40,-S adm92

    Federal Tax ID Errors: 4
              Duplicates: 2
              Blank or ?: 2

  Address  Name                          List                          1099s Tax ID - Federal
  -------- ----------------------------- ---------------------------- ----- ------------------
  00000001 Universal Industries          customer,supplier                  97-55891252
  00050000 American Steel                supplier                           03-11458767
  001      PEI Industries                company,customer,supplier          00000000000
  10000000 Quality Products              company
  2100cust ABC Rentals, Inc.             customer
  2100end  Allen Howard                  enduser                            00000000000
```

Conversion Parameters Utility

Pre-conversion Activities

- Data Preparation Report
- **Conversion Parameters Utility**

QAD

Conversion Parameters Utility 2

Conversion Parameters Utility

- This utility prompts for the parameters the QAD EE conversion will use when creating new Financial objects

  These are mostly daybook codes, but also includes a few account codes and other items.

- Because there are so many new parameters, prompting for them through a utility rather than when the conversion is launched provides more time to plan the answers.

QAD

Conversion Parameters Utility 3

Conversion Parameters Utility

- You can exit the utility without providing all of the answers, but you must provide them before running the conversion.
- You can rerun the utility as often as desired and delete or change answers

  If new validations are added to the utility since it was last run, the Data Exists flag for parameters with existing values is reset to No. This forces the user to revalidate the entered data.
- For eB2.1 and above, including Standard Edition, you must run the utility for each active domain, even if you elect to use the same answers for multiple domains.

QAD

Conversion Parameters Utility 4

Conversion Parameters Utility

- This utility does not impact future processing. It only creates qad_wkfl records.
- Report output filename is utfinpar-*<dbname>*-*<domain>*-*<date>*_*<time>*.prn

QAD

Conversion Parameters Utility 5

Conversion Parameters Utility

Update Conversion Parameters

Type	Parameter	Data Exists?
Domain	Default AR Finance Charges Daybook	yes
Domain	Default AR Credit Note Daybook for Operational Invoices	yes
Domain	Default AR Credit Note Daybook for Financial Invoices	yes
Domain	Default AR Invoice Daybook for Operational Invoices	yes
Domain	Default AR Invoice Daybook for Financial Invoices	yes
Domain	Default AR Payment Daybook	yes
Domain	Default Customer Adjustment Daybook	yes
Domain	Default AP Credit Note Daybook for Financial Invoices	yes
Domain	Default AP Invoice Daybook for Financial Invoices	yes
Domain	Default AP Payment D	
Domain	Default Intercompany	
Domain	Default Matching Ent	
Domain	Default Banking Entr	
Domain	Default Inventory Da	
Domain	Default Work Order D	

Conversion Parameters Utility

Type	Parameter	Data Exists?
Domain	Default Daybook Sequence Effective Date (MM/DD/YYYY)	yes
Domain	Account for Posting Balances	yes
Domain	Account for Year-End Balances	yes
Domain	Account for Current Year Income Offset	yes
Domain	Account for Results of Previous Years	yes
Domain	Account for Unmatched Invoices	yes
Domain	Default Sub-Account	yes
Domain	Default Cost Center	yes
Domain	Default Project	yes
Domain	Default Credit Term	yes
Domain	Convert Unused Cashbooks?	yes
Domain	Create Entity Tax Periods?	yes
System	Management Currency	yes
System	Country for default Tax Box	yes
System	Convert existing security setup?	yes

QAD

Search & Replace Report/Utility

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- **Search & Replace Reports/Utility** (eB2.1 and above, including Standard Edition)

QAD

Search & Replace Report/Utility 2

Search & Replace Reports/Utility

- Only run this suite of reports/utilities when converting from eB2.1 and above, including Standard Edition.
- Execution is optional, unless specifically indicated by the Data Preparation Report, but **strongly** recommended regardless.
- Requires that you run Table Extension Domain Update Utilities first

QAD

Search & Replace Report/Utility 3

Search & Replace Reports/Utility

- Due to schema and architecture changes introduced in QAD Enterprise Edition, the scope of some data objects has changed from domain level to system level.
- During the conversion, if two records exist with the same code in more than one domain, they are assumed to be the same and only one record is converted. As a result, some domain-level data could potentially be lost when converting a database with more than one domain.
- The purpose of the Code Search and Replace utilities is to provide a way to identify and correct instances of duplicate domain-level data.

QAD

Search & Replace Report/Utility 4

Search & Replace Reports/Utility

In QAD EE, addresses remain at the domain level, but map to business relations, that are at the system level in the new Financials. Each business relation must have a unique code.

In QAD EE, entities remain at the domain level, but map to companies (now called entities) in the new Financials. The entity code must be unique in the database going forward.

Before QAD EE, credit ratings were stored in Generalized Codes (code_mstr) against field cm_cr_rating. Generalized Codes is a domain-level table in eB2.1 and above, including Standard Edition. In QAD EE, credit ratings are stored in a new Financials table and become system-level data.

QAD

Search & Replace Report/Utility 5

Search & Replace Reports/Utility

Before QAD EE, Customer and Supplier Types were stored in Generalized Codes (code_mstr) against fields cm_type and vd_type. In QAD EE, customer and supplier types are stored in a new Financials table and become system-level data.

Prior to QAD EE, voucher types were stored in Generalized Codes (code_mstr) against field vo_type. In QAD EE, voucher types are called purchase types and stored in a new Financials table as system-level data.

State and county codes are stored in Generalized Codes (code_mstr) against fields ad_state and ad_county. In QAD EE, states and counties become system-level data, but remain in their original table.

QAD

Search & Replace Report/Utility 6

Search & Replace Reports/Utility

Before QAD EE, tax classes were stored in Generalized Codes (code_mstr) against field taxc_taxc. In QAD EE, tax classes are stored in the new Tax Class table (txcl_mstr) and become system-level data.

Before QAD EE, tax usages were stored in Generalized Codes (code_mstr) against field tx2_tax_usage. In QAD EE, tax usages are stored in the new Tax Usage table (txu_mstr) and become system-level data.

Before QAD EE, tax types were stored in Generalized Codes (code_mstr) against field txt_tax_type. In QAD EE, tax types are stored in the new Tax Type table and become system-level data.

QAD

Search & Replace Report/Utility 7

Search & Replace Reports/Utility

Tax zones are currently stored in the Tax Zone Master (txz_mstr) table. This is a domain-level table in eB2.1 and above, including Standard Edition. In QAD EE, the domain field was removed and tax zones are system-level data.

Tax environments are stored in the Tax Environment Master (txe_mstr) and Tax Environment Detail (txed_det) tables. These are domain-level tables in eB2.1 and above, including Standard Edition. In QAD EE, the domain field has been removed and tax environments are system-level data.

QAD

Search & Replace Report/Utility 8

Search & Replace Reports/Utility

Credit terms are stored in the Credit Terms Master (ct_mstr) and Credit Terms Detail (ctd_det) tables. These are domain-level tables in eB2.1 and above, including Standard Edition. In QAD EE, credit terms are stored in the Payment Condition table in the new Financials. Payment conditions are system-level data. Payment conditions are maintained in Financials and automatically replicated to all domains in the operational area, which means each domain will contain the same credit terms records.

Rounding methods are stored in the Rounding Methods Master (rnd_mstr) table. This is a domain-level table in eB2.1 and above, including Standard Edition. In QAD EE, the domain field has been removed and rounding methods are system-level data. Rounding methods are maintained in Financials and automatically replicated to the operational area.

QAD

Search & Replace Report/Utility 9

Search & Replace Reports/Utility

- Duplicate Code Report (utsarrp1.p)

  Highlights codes (entities, credit ratings, credit terms, tax parameters, and so on) occurring in multiple domains that will move to the system level in QAD EE, where only one instance of each code will remain. This report allows you to identify any differences in the codes across domains.

- Code Usage Report (utsarrp2.p)

  This report highlights the number of instances where a particular code is used in the current domain, providing more insight into the use and analysis of the code.

QAD

Search & Replace Report/Utility 10

Search & Replace Reports/Utility

- Replace Code (utsarrp3.p)

  Use this utility to replace specified code values in the current domain with the new user-specified value

  This utility can have a broad impact on the system and future transactions, depending on the codes being replaced. Use it judiciously and only after backing up the database.

QAD

GL Account Type Utility

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- **GL Account Type Utility – Report mode**

QAD

GL Account Type Utility 2

GL Account Type Utility

In QAD EE, each General Ledger (GL) account has an account type that specifies how the account is used. The types include control accounts, intercompany accounts, bank and cash accounts, special accounts (classified as system accounts) dedicated to period closing and exchange rate fluctuations, and income/expense accounts (classified as standard accounts).

Each account type has different restrictions on how/where it can be used in transactions. The purpose of the GL Account Type Utility is to identify GL accounts in static data (not transactions) that will not pass the requirements described above when moved to the new Financials.

Note: The use of GL Allocation codes is only permitted on Standard Accounts and when the GL accounts in the allocation code do not conflict with another account type.

QAD

GL Account Type Utility 3

GL Account Type Utility

- The utility lists:
  - GL accounts used for more than one account type (or purpose)
  - Multiple accounts used for the same system type accounts (that is, two accounts used for exchange rate rounding) when only one account is allowed.
- The report can be produced in detail or summary mode
  - Detail mode lists every instance of an account that is in conflict, the menu function where the conflict occurs, and some key values to help identify the specific offender.
  - Summary mode lists only the first instance of an account in conflict and the menu function where it is defined. There may be additional instances other than the one shown.

QAD

GL Account Type Utility 4

GL Account Type Utility

- Use report-only mode first as a planning tool to determine how to resolve the conflicts
- Then resolve the conflicts using one of these methods:
  - Use the utility in Update mode to make the corrections (the recommended approach)
  - Correct the offending accounts directly in the maintenance program shown on the report
  - Use a combination of the above methods
- Run the utility at least once in Update mode (in each active domain for eB2.1 and above, including Standard Edition), regardless of how conflicts are resolved. This records that all conflicts were successfully resolved.
- The Data Preparation Report checks for this and verifies that all conflicts were resolved. If not, errors are reported.

QAD

GL Account Type Utility 5

GL Account Type Utility

- You can rerun the utility as many times as needed. If it was run earlier in Update mode, the previous answers appear on the screen.
- Each time the utility runs, it checks for additional conflicts since the last execution. Therefore, you must run the utility a final time in Update mode just before starting the conversion.
- The utility highlights conflicting accounts in the drop-down list with an asterisk
- There is no impact on future processing if you make all corrections using the utility in Update mode. Answers are stored in qad_wkfl records and used by the conversion to create new accounts (when applicable) and update the source field with the selected account.
- Any corrections made directly in the database will impact the defaulted account(s) in future transactions

QAD

GL Account Type Utility 6

GL Account Type Utility

- Type uxglacup.p at any MFG/PRO menu command line
- Report output filename is uxglacup-dtl-*<dbname>*-*<domain>*-*<date>*_*<time>*.prn or uxglacup-sum-*<dbname>*-*<domain>*-*<date>*_*<time>*.prn

```
DOM1 USD DB NY [USD]                          GL Account Type Utility
Page     1                                              DOM1 USD DB NY


Source Code Version(s): 6764, 6764, 6505, 6764 (uxglacup.i, gpacctpl.i, gpacct.i, gpacctdf.i)

Connected Databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -c 30,-db /dr02/db/preconv/ConvQA/mfgprod,-ld qaddb,-trig triggers
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr02/db/preconv/ConvQA/admprod,-ld qadadm,-trig triggers

Conflicts By Account Code
X indicates a restricted Account Type.
  Old Acct Account Type                New Acct Key Values (or Field Name)                                                  Menu Where Account
  -------- ---------------------------- -------- -------------------------------------------------------------------------- --------------------
X 000000AP Cross-Company Control (AP)   1211                                                                                 25.3.1.1 Entity Cod

X 000000AR Cross-Company Control (AR)   1203                                                                                 25.3.1.1 Entity Cod

X 00000INV Cross-Company Control (IC)   1213                                                                                 25.3.1.1 Entity Cod

X 1040     Bank Account                 1040                                                                                 28.9.1 Bank Mainten
X 1040     Supplier Payment Account     2110                                                                                 28.9.1 Bank Mainten

X 1050     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1051     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1052     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1053     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1054     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1055     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1056     Unrealized Exchange Gain     1056                                                                                 26.7 Currency Accou

X 1070     Unrealized Exchange Loss     1076                                                                                 26.7 Currency Accou
```

Process Pending Transactions

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- **Process pending transactions**
- **Close database to users**

QAD

Process Pending Transactions 2

Process Pending Transactions

- Print and post all pending invoices. This two-step process was combined into a single-step process in QAD EE.
- Confirm any unconfirmed vouchers
- Post all unposted GL transactions
- Close the production database to new data and transactions. You can accomplish this through menu security while still allowing access to users responsible for pre-conversion activities.

QAD

Rerun GL Account Type Utility

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- Process pending transactions
- Close database to users
- **Rerun GL Account Type Utility – Update mode**

QAD

Converted GL Account Definition Report

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- Process pending transactions
- Close database to users
- Rerun GL Account Type Utility – Update mode
- **Converted GL Account Definition Report (optional)**

QAD

Converted GL Account Definition Report 2

Converted GL Account Definition Report

- This report provides a preview of how the GL accounts are defined in the new Financials after conversion
- You cannot run it until the following functions have been run:
  - Control Account Utility
  - GL Account/Project Utility (if pre-eB)
  - GL Account Type Utility (Update mode)
  - Conversion Parameters Utility - account parameters entered at a minimum
- Running the report is optional. For eB2.1 and above, including Standard Edition, it must be run for each active domain when desired.
- This utility has no impact on future transactions. It is only a simulation report.

QAD

Converted GL Account Definition Report 3

Converted GL Account Definition Report

- Type glacdfrp.p at any MFG/PRO menu command line
- Report name is glacdfrp-<*dbname*>-<*domain*>-<*date*>_<*time*>.prn

```
glacdfrp                                        Converted GL Account Definition Report
Page     1                                              qad.inc


Source Code Version(s): 6829, 6823, 6505, 6779 (glacdfrp.i, gpacctpl.i, gpacct.i, gpacctdf.i)

Connected Databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/pr92bmfg,-trig triggers,-H coli41,-S pr92bm
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92b/db/pr92badm,-trig triggers,-H coli41,-S pr92bad
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro/92bdb/devhelp/devhelp92b,-trig triggers,-H coli40,-S
qadhelp,-crc

Domain: st92bmfg

                                                                                                Sub-  Cost      Analysis
GL Code  Description                GL Type / System Type                Financial Report Category  Acct Ctr  Proj Limitation
-------- -------------------------- ---------------------------------- ---------------- --------- ---- ---- ---- -------------
000000AP Accounts Payable           Standard Account                   Balance Sheet    Liability yes  yes  yes  None
000000AR Accounts Receivable        Standard Account                   Balance Sheet    Asset     yes  yes  yes  None
00000INV Inventory                  Standard Account                   Balance Sheet    Asset     yes  yes  yes  None
00000WIP Work In Process            Standard Account                   Balance Sheet    Asset     yes  yes  yes  None
000AP001 Default AP Account         Standard Account                   Balance Sheet    Liability yes  yes  yes  None
000APDS1 AP Discount                Standard Account                   Income Statement Expense   yes  yes  yes  None
000APTX1 Ap Tax Recoverable         Tax Account                        Balance Sheet    Asset     yes  no   no   None
000APTXR AP Tax Retained            Tax Account                        Balance Sheet    Liability yes  no   no   None
000CASH1 Cash Account               Bank Account                       Balance Sheet    Asset     yes  no   no   None
000PIP01 Payment in Process Acct    Supplier Payment Account           Balance Sheet    Liability yes  yes  yes  Both Required
000POR01 PO Receipts Clearing Acc   Sys - Purchase Order Receipts      Balance Sheet    Liability yes  no   no   None
000PUR01 Default Purchases          Standard Account                   Income Statement Expense   yes  yes  yes  None
000SALES Sales                      Standard Account                   Income Statement Income    yes  yes  yes  None
```

Rerun Pre-conversion Integrity Report

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- Process pending transactions
- Close database to users
- Rerun GL Account Type Utility – Update mode
- Converted GL Account Definitions Report (optional)
- **Pre-conversion Integrity Report**

QAD

Rerun Pre-conversion Integrity Report 2

Pre-conversion Integrity Report

- This report assesses the status of financial transaction data before conversion. It reports AR, AP and GL transaction integrity information in a single report.

  Inconsistencies are highlighted that you have the option correcting before conversion. If you make corrections, you should rerun this report should to capture an accurate pre-conversion snapshot.
- You can rerun this report can multiple times as needed
- For eB2.1 and above, including Standard Edition, one execution processes all active domains.
- Type gpinckrp.p at any MFG/PRO menu command line

QAD

Rerun Pre-conversion Integrity Report 3

Pre-conversion Integrity Report

```
Build Integrity Check Records: Yes
Report Integrity Check Records: yes

Detail/Summary: Detail
Output File Location: ____________________________________
```

- Building integrity check records will store data in the database for the current report execution. This allows for reproduction of the report with the same information at a later time.
- Report integrity check records displays the information collected during the Build step
- If the current status of the database is required, set Build Integrity Reports to Yes.
- Report output filename is
  gpinckrp-dtl-<*dbname*>-<*date*>_<*time*>.prn or
  gpinckrp-sum-<*dbname*>-<*date*>_<*time*>.prn

QAD

AP Transaction Integrity

AP Transaction Integrity

- Compares sum of open AP records by account to sum of corresponding GL amounts for each AP account, reporting any differences in local or transaction currency amounts.
- Reports the total amount of all non-AP transactions posted against an AP Control Account
- Compares the balance of open AP vouchers by supplier to the supplier's open balance in Supplier Activity Inquiry, reporting any differences.
- Optionally, run Adjust Supplier Balance Utility (36.25.4 – utvdbal.p) to adjust the supplier's balance.
- Reports any vouchers where the referenced supplier no longer exists
- Reports any voucher that is missing detail line information

QAD

AR Transaction Integrity

AR Transaction Integrity

- Compares sum of open AR records by account to sum of corresponding GL amounts for each AR account, reporting any differences in local or transaction currency amounts.
- Compares the balance of open AR invoices and unapplied payments by customer to the customer's open balance in Customer Maintenance, reporting any differences.
- Optionally, run Adjust Customer Balance Utility (36.25.5 – utcsbal.p) to adjust the customer's balance.
- Reports the total amount of all non-AR transactions posted against an AR Control Account
- Reports any invoices where the referenced customer no longer exists
- Reports any invoice that is missing detail line information

QAD

GL Transaction Integrity

GL Transaction Integrity

- Compares the total of posted GL transactions to the corresponding Account Balance table (acd_det)
- Optionally, run Recalculate acd_det Totals (36.25.39 – utacdfix.p) to adjust account balance detail totals so they match GL.

  Be aware that doing so in a database containing consolidated GL transactions will zero-out the period totals for all periods other than the consolidation period
- Reports any out-of-balance transactions. The conversion will have to balance them by creating offsetting entries.

  If the database contains GL transactions that were consolidated by select accounts, run the report in Summary mode to verify the transactions are in balance for the year, not by individual transaction.

QAD

GL Transaction Integrity 2

GL Transaction Integrity

The report additionally validates that:

- The entity in each GL transaction exists
- The account for each GL transaction exists and is active
- All effective dates have a corresponding period in GL calendar

If any of these types of errors are reported, you must manually fix them before conversion

QAD

Rerun Data Preparation Report

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- Process pending transactions
- Close database to users
- Rerun GL Account Type Utility – Update mode
- Converted GL Account Definitions Report
- Pre-conversion Integrity Report
- **Rerun Data Preparation Report until zero errors**

QAD

Run Standard Period Closing Reports

Pre-conversion Activities

- Data Preparation Report
- Conversion Parameters Utility
- Search & Replace Reports/Utility (eB2.1 and above, including Standard Edition)
- GL Account Type Utility – Report mode
- Process pending transactions
- Close database to users
- Rerun GL Account Type Utility – Update mode
- Converted GL Account Definitions Report (optional)
- Pre-conversion Integrity Reports
- Rerun Data Preparation Report
- **Run standard period closing reports**

QAD

Standard Period Closing Reports

Standard Closing Reports

- Trial Balance (25.15.4 – gltbrp.p or 25.15.5 – gldtbrp.p)
- Balance Sheet (25.15.8 – glbsrp.p)
- Income Statement (25.15.13 – glinrp.p)
- AR Aging as of Effective Date (27.18 – arcsrp05.p)
- AP Aging as of Effective Date (28.17.6 – apvorp04.p)
- AR Tax by Tax Rate (2.13.15.14 – txarrp01.p)
- AP Tax by Tax Rate (2.13.15.17 – txaprp01.p)
- AR Balance Report (27.20 – arcsrp.p)
- Inventory Valuation (3.6.13 – ppptrp03.p)
- Unvouchered Receipts Report (5.13.10 – poporp11.p)
- Purchase Receipt Report (5.13.5 – poporp06.p)
- Asset Owned Report (32.5.11 – faaorp.p)
- Sales Order Report (7.15.1, 2 or 3 – sosorp.p, sosorp01.p, sosorp02.p)

QAD

Questions?

Questions?

QAD

EE Conversion Exercise

EE Conversion Exercise

QAD

Exercise: Pre-conversion

Exercise: Pre-conversion

- Access the appropriate Surgient environment
  - Mount downloads-int to access QAD Software
    - Login as root
    - #mount downloads-int.qad.com:/dr01/QAD_SW_ISOs /mnt
  - Locate the current release media
- Install pre-conversion software
- Run the Data Preparation Report and correct all issues
- Back up the database when pre-conversion work is complete

QAD

Chapter 3

Conversion Execution

Conversion Execution Process

Conversion Execution Process

Step Seq	Step Name	File Name	MFG/PRO Release
	Conversion Execution		
5.1	Prepare the Environment		
5.2	Prepare the Source Database(s)		
5.3	Install and Configure Software		
5.3a	Install latest version of QDT		
5.3b	Install QAD EE		
5.4	Conversion Setup		
5.4a	Enable Large Files		
5.4b	Configure Conversion settings		
5.5	Execute Conversion		
5.5a	Enter License codes		

QAD

Conversion Execution Process 2

Conversion Execution Process

- Prepare the environment

  Define values for the following environment variables:
  - DLC: Progress install directory
  - CATALINA_HOME: Tomcat install directory
  - JAVA_HOME: Java install directory
- Note: QAD recommends placing these settings in a shell script to avoid having to set them each time

QAD

Conversion Execution Process 3

Conversion Execution Process

- Prepare the source databases
  Migrate database to latest Progress version
- Note: Conversion execution will not start if there are errors in the Data Preparation Report
  Therefore, it is mandatory to resolve all pre-conversion errors before beginning this stage

QAD

Conversion Execution Process 4

Conversion Execution Process

- Install and configure software
  - Install the latest version of QDT that includes conversions

    Note: Conversion software is not deployed on QAD EE media; therefore, a separate download of QDT with conversions included is required
  - Use latest version of QDT

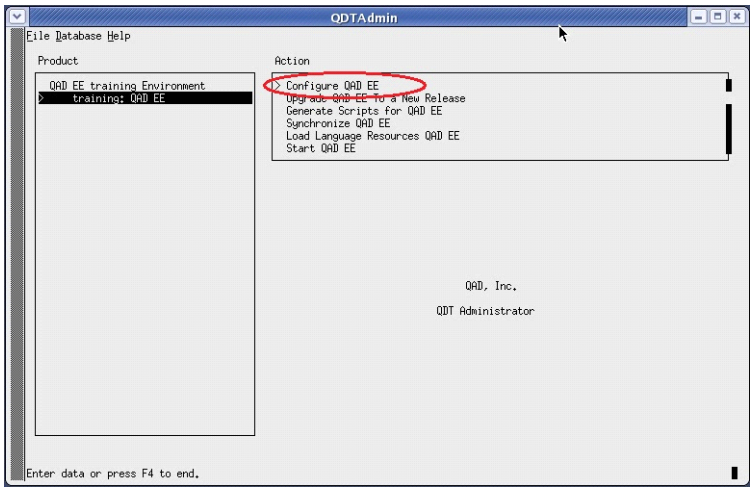
    Install QAD Enterprise Edition
- Note: You may need to update the QAD EE patch level

QAD

Conversion Execution Process 5

Conversion Execution Process

You should not run the Configure QAD EE option during a conversion. It is only required when doing a clean install with no conversion planned



Conversion Execution Process 6

Conversion Execution Process

Conversion Set Up

- Enable large files for the target production database (if required)
- Enable conversions

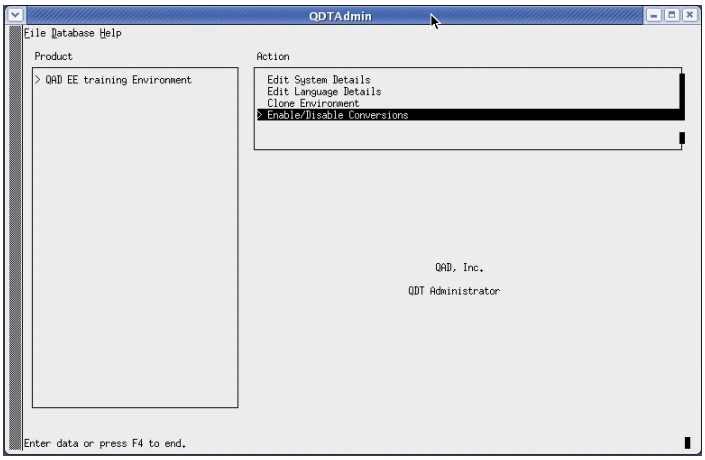
QAD

Conversion Execution Process 7

Enable/Disable Conversions

Enable Conversions

- Conversion menus are password protected and must be enabled before conversion execution
- The password to enable the conversions is provided as part of the QAD Services engagement

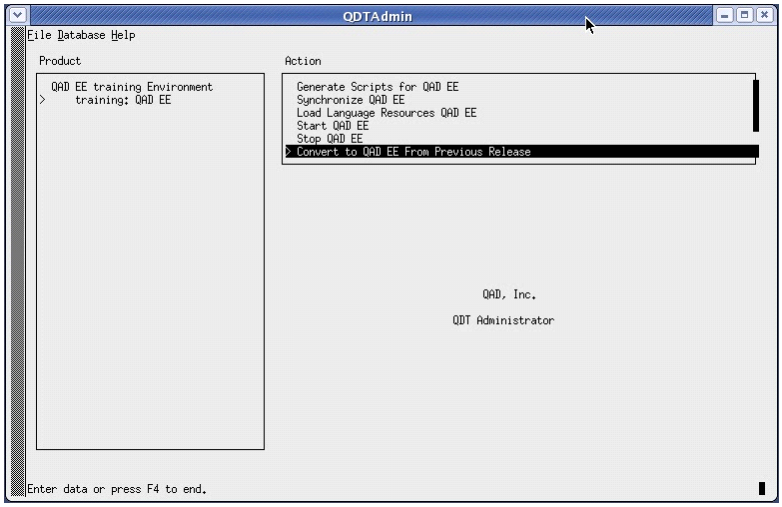


QAD

Convert QAD EE

Convert QAD EE From Previous Release

Select the following menu item to configure the conversion execution settings



Create Live Main Database

Live Main Database: Create Live Main Database

- Edit server values in parms field as follows:

```
QAD EE Database: Configure QAD EE Database Sets
  Empty Database Set: Create QAD EE Empty Database Set
    Empty Main Database: Create Empty Main Database
    Empty Single R-code Database: Create Empty Single R-code Database
    Empty Admin Database: Create Empty Admin Database
    Empty Help Database: Create Empty Help Database
  QAD EE Database Set: Create QAD EE Live Database Set
>   Live Main Database: Create Live Main Database
    Live Admin Database: Create Live Admin Database
    Live Help Database: Create Live Help Database
  QAD EE Database Set: Start Live Database Set
QAD EE Application: Configure QAD EE Application
```

- Select Live Main Database: Create Live Main Database
  - set –L: 327680
  - Include: –i
  - set –B: 50000

```
  Logical Name: qaddb
       Service:
  Server Parms: -L 327680 -i -c 350 -B 50000 -spin 50000 -tablerang
Connect Parms: -trig triggers

        < Back >< Next >          < Done >< Cancel >
```

Create Live Main Database 2

Live Main Database: Create Live Main Database

Edit the Live Main Database Option 3 screen:

```
Physical: mfgprod  Logical: qaddb            [ ] Auto startup
Host name: ___________________               [ ] After-image Stall
                                             [ ] Autostart Monitoring Agent

Before-image writer buffers: 25_______________
Before-image writer delay writes: 5_____
Blocks in DB buffer: 50000_____

    Case table name: ___________________
Message buffer size: 0____
  Spin lock retries: ________________
 Lock table entries: 327,680_______
 Reporting interval: 0____________

          < Back >< Next >                 < Done >< Cancel >
```

QAD

Create Live Main Database 3

Live Main Database: Create Live Main Database

Select Next until the following screen

- Edit BI Truncation Parameter screen
- Enable the Options checkbox and modify the following values:
  - Set BI Cluster (KB): 32768
  - BI Block Size: 16k
  - Number of BI Clusters: 6

```
Edit BI Truncation Parameters        Container: Live Main Database

    Database: /dr01/mfgpro/QADEE/db/mfgprod

                                                          [X]Options
          BI Cluster Size (KB): 32,768
                 BI Block Size: 16K        [V]

         Number of BI Clusters: 6


            < Back >< Next >                  < Done >< Cancel >
```

Generate R-code

Character Client Code: Generate R-code

- Select Character Client Code: Generate R-Code

```
        Live Admin Database: Create Live Admin Database
        Live Help Database: Create Live Help Database
      QAD EE Database Set: Start Live Database Set
    QAD EE Application: Configure QAD EE Application
      EDI Code: Configure EDI Code
      ePublisher: Configure ePub Content
>     Character Client Code: Generate R-code
      Financials AppServer: Create Financials AppServer
      UI Configuration: Create UI Configuration
        UI Configuration: Build UI Configuration
        UI AppServer: Create UI AppServer
        UI WebSpeed Broker: Create WebSpeed Broker
```

- Change compiler settings:
  - Check Multi-thread
  - Set the number of Compile Threads to the number of CPU cores on the server
  - Check Ignore Compile Errors

```
Compiler Settings                    Container: Character Client Code

                          (X)Staggered QAD EE Default
                          ( )Flat Destination
                          ( )Destination Same as Source

 Compile List File: /dr01/mfgpro/QADEE/utcompil.wrk          <Browse>
                    [ ] Generate New List File

   Compile Propath: /dr01/mfgpro/QADEE/xrc,/dr01/mfgpro/QA   < Edit >
                    DEE/xrc/proxy

      Database Set: Empty Database Set   [V]

 Destination Path: /dr01/mfgpro/QADEE                        <Browse>

                   [ ] Multi-Thread          Compile Threads: 0
                   [ ] Ignore Compile Errors

            < Back >< Next >                  < Done >< Cancel >
```

Update UI Configuration

UI Configuration: Update UI Configuration

```
      QAD EE Database Set: Start Live Database Set
    QAD EE Application: Configure QAD EE Application
      EDI Code: Configure EDI Code
      ePublisher: Configure ePub Content
      Character Client Code: Generate R-code
      Financials AppServer: Create Financials AppServer
      UI Configuration: Create UI Configuration
        UI Configuration: Build UI Configuration
        UI AppServer: Create UI AppServer
        UI WebSpeed Broker: Create WebSpeed Broker
>       UI Configuration: Update UI Configuration
    QAD EE Database Set: Convert QAD EE Databases From Previous Release
```

Update the following:

- Working Directory
- Login
- Password and Confirm Password

```
Working Directory: /dr01/mfgpro/QAD2010_1EE

       OS Prompt: $                          Port: 23

           Login: mfg
        Password:                   Minimum Connections: 1
Confirm Password:                   Maximum Connections: 5

          < Back >< Next >                  < Done >< Cancel >
```

Convert QAD EE Database

QAD EE Database Set: Convert QAD EE Database from Previous version

```
      EDI Code: Configure EDI Code
      ePublisher: Configure ePub Content
      Character Client Code: Generate R-code
      Financials AppServer: Create Financials AppServer
      UI Configuration: Create UI Configuration
        UI Configuration: Build UI Configuration
        UI AppServer: Create UI AppServer
        UI WebSpeed Broker: Create WebSpeed Broker
        UI Configuration: Update UI Configuration
>   QAD EE Database Set: Convert QAD EE Databases From Previous Release
    QAD EE: Synchronize QAD EE
    QAD EE: Load Language Resources QAD EE
```

Update the following:

- Select Yes to all create prompts
- Source qaddb database name is the full path of the source production database
- Source adm database name is the full path of the source admin database

Convert QAD EE Database 2

QAD EE Database Set: Convert QAD EE Database from Previous version

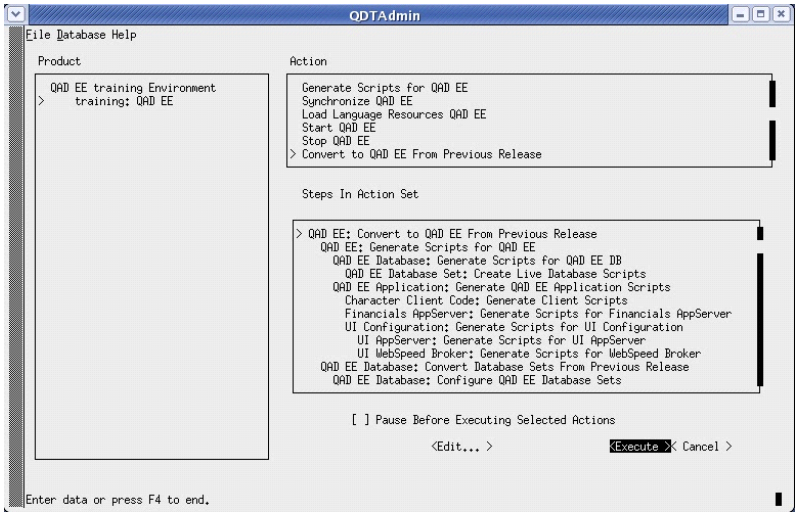
If the database being converted is before eB 2.1, you must specify the following information:

- Domain information. Tab to Next and press Enter to provide the domain code, domain name, and domain description for the predetermined domains
- OID seed value

Conversion Execution

Conversion Execution

Once all the settings are completed, select Execute and press Enter to begin conversion execution



Conversion Execution 2

Execute Conversion

- The conversion proceeds until finished or an error occurs

  The Pause Before Executing Each Action checkbox can be used to prompt the user before continuing to execute each step
  - This should only be used for testing or debugging purposes
  - QAD does not recommend using this option for a live production conversion
- No further input is required until the conversion ends
- Once the conversion finishes, quit QDT and enter the license codes

QAD

Snapshots

Snapshots

The conversion process can be configured to pause at predefined points to allow you to make backups ("snapshots")

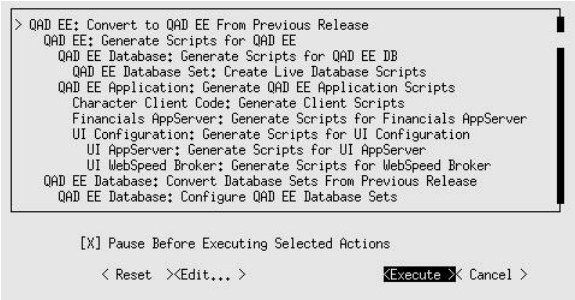
- Snapshots allow you to restore and restart the conversion at the point where the snapshot was made
- The snapshot feature is only available for conversions (not upgrades)
- Pause points are defined in the convprogpauselist.ini configuration file
- Snapshots are typically used during initial conversion testing
- QAD does not recommend using snapshots during a live production conversion

QAD

Making Snapshots

Making Snapshots

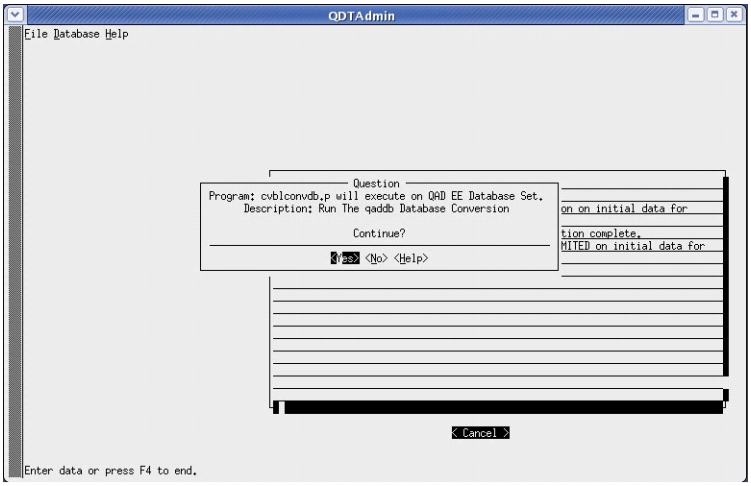
- Configure convprogpauselist.ini to specify where to pause during the conversion.
- Select Pause Before Executing Selected Actions before starting the conversion.



Making Snapshots 2

Making Snapshots

- Select No when prompted to continue past the pause point.



Making Snapshots 3

Making Snapshots

- Exit QDT.
- Stop the environment.
- Backup the required files and databases.
- Restart the environment.
- Restart QDT.

QAD

Conversion Validation

Conversion Validation

- The following QDT screen should appear when the conversion finishes.

```
11/11/10 @ 02:34:17 [mfg] -
11/11/10 @ 02:34:17 [mfg] - End execution.
11/11/10 @ 02:34:17 [mfg] - Action:    Convert to QAD EE From Previous Release
11/11/10 @ 02:34:17 [mfg] -
11/11/10 @ 02:34:17 [mfg] - The Conversion has finished processing.
11/11/10 @ 02:34:17 [mfg] - Please review log files for any errors or warnings
11/11/10 @ 02:34:17 [mfg] -

Press CLOSE to continue.

< Close >
```

QAD

Conversion Validation 2

Conversion Validation

- Check the log files for errors:
  - <QDT install dir>/logs/qdtadmin.log
  - <QDT install dir>/logs/qdtadmin001.log
  - ...
  - <QDT install dir>/logs/qdtadminxxx.log
- Refer to EE Conversion Guide, Appendix F – Log Files, for further information about conversion-related log files.

QAD

Troubleshooting

Troubleshooting

The following are some issues which may prevent successful conversion execution:

- Conversions are not enabled in QDT
- Errors exist in the Data Preparation Report
- Invalid characters exist in a database field
- The number of characters in a database field exceeds the character limit for the field

QAD

Troubleshooting 2

Troubleshooting

QDT menu options do not contain Convert QAD EE from Previous Release

- Conversion routines are disabled and password protected by default. Therefore, this option must be enabled beforehand
- Or conversion routines are not deployed on QAD EE media. Therefore, a separate download of QDT with conversions included is required

QAD

Troubleshooting 3

Troubleshooting

QDT Admin gives an error message “Data Preparation Report is not clean" after you input the source database

- Before the conversion execution stage can be run, the Data Preparation Report must be run on source database and report zero errors
- To fix the problem, run the Data Preparation Report against the source database and fix any reported errors

QAD

Troubleshooting 4

Troubleshooting

Errors in reindex.log

- reindex.log contains the output from rebuilding the indexes in the QAD EE database during conversion execution
- The new unique index oid_<table name> can cause these errors
  - This new index is used to enforce uniqueness on the OID fields
  - OID fields were available in some pre-QAD EE versions, but uniqueness was not enforced
- Analyze and correct these errors before proceeding with the conversion
  - For OID fields, these can be reset to zero and the conversion will regenerate them
  - Note: Some OID fields are used as foreign fields and these should be manually corrected
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 5

Troubleshooting

Errors in qdtadmin.log: "field cannot contain a comma, a pipe or any unprintable character"

- QAD EE does not support commas, pipes, or unprintable characters in some fields
- You must remove these characters from the source database or replacethem with supported characters (such as semicolons)
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 6

Troubleshooting

Errors in qdtadmin.log: "value is too long"

- QAD EE validates field length based on data definitions. If the value being entered in the field exceeds the length defined in the database, QAD EE raises an error during conversion
- You can correct these errors by shortening or truncating some characters from the original value to make the length less than, or equal to, the length defined in database
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 7

Troubleshooting

Errors in qdtadmin.log: "The role name may not contain the following characters: '*', ',' or '!'"

- QAD EE 's role name does not support the above characters
- These characters must be replaced in usrg_group_name of the source database with supported characters
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 8

Troubleshooting

Errors in qdtdmin.log: "***** Error: Cannot find Pay Format Directory "

- The payformats xml directory was entered incorrectly using the Conversion Parameters Utility or the directory does not contain any of the required xml files
- Fix: Confirm that the directory entered is valid and contains the correct xml files
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 9

Troubleshooting

Progress errors during conversion execution such as

"Record Already exists with Daybook Code = 0."

- The conversion could not find the default daybook codes because they were not entered or there was an earlier error that caused the conversion to not write these values to the xml file
- Update the values using the Conversion Parameters Utility
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

QAD

Troubleshooting 10

Troubleshooting

Progress errors during conversion execution such as "Could not start financial session. -5"

- Potential causes:
  - The financial application server is not running
  - The license keys are out of date
- Fix: Start the financial application server
- If the conversion or upgrade execution did not complete successfully and terminated prematurely, you need to determine the root cause of the problem and correct it in the source environment. You will need to restart the converison from the beginning by doing a reinstallation of QDT and QAD Enterprise Edition

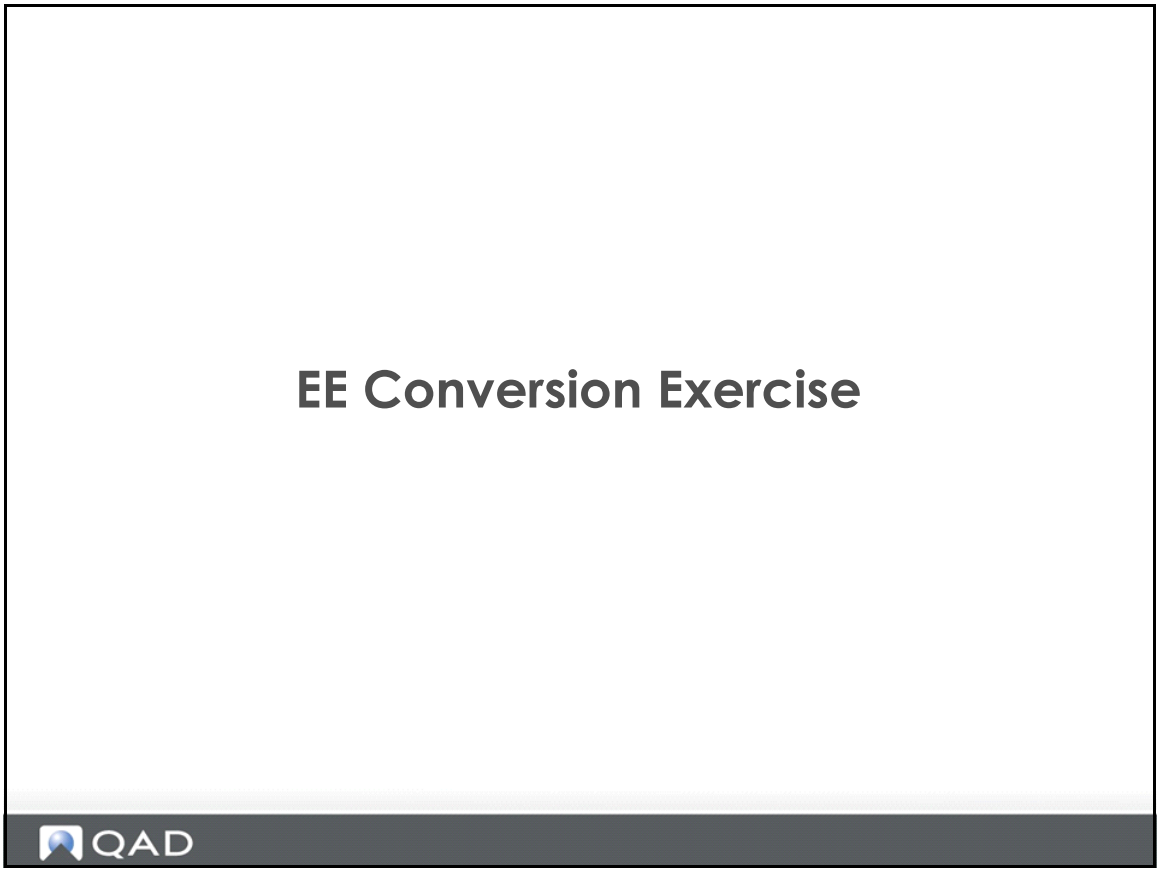
QAD

Questions?

Questions?

QAD

EE Conversion Exercise



Exercise: Conversion Execution

Exercise: Conversion Execution

- Prepare the environment by defining environment variables
- Install current EE software
  - Conversion-enabled QDT
  - QAD EE
- Conversion set up
  - Enable conversions
  - Configure conversion settings

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Exercise: Conversion Execution 2

Exercise: Conversion Execution

- Execute the conversion
  - To use the optional snapshot feature
    - Select Pause Before Executing Selected Actions
    - Take snapshots based on your configuration settings
    - Restart the conversion execution
  - To perform a conversion without making snapshots, select Execute
- Complete the conversion
- Validate the conversion
  - QDT Admin screen
  - Check the log files for errors
- Enter the license codes

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Chapter 4

Post-conversion

Post-conversion Introduction

Post-conversion Introduction

Post-conversion objectives:

- Test and validate a converted database
- Prepare a converted database for a go-live implementation

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Post-conversion Steps

Overview of Post-conversion Steps

1. Post-conversion utilities
2. Post-conversion data validation
3. Post-conversion reports
4. Process flow and static data validation
5. Post-conversion set up:
   - Mandatory data
   - Non-mandatory data

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Post-conversion Steps 2

Overview of Post-conversion Steps

Step Seq	Step Name	File Name	MFG/PRO Release
	Post-conversion Utilities		
6.1	Fixed Assets Migration Utility	32.25.2 - facvmt.p	8.6e, 9.0
6.2	Table Extension Domain Conversions (2) - Part 2 of 2	5.25.7 - utvdtr92.p or 5.25.8 - utvdt92b.p	eB3
6.3	Sales Order Balance Update	36.16.23.6 - utcsob.p	
6.4	Document Credit Terms Update	36.25.83 - uxdoccrterms.p	eB3
	Post-conversion Data Validations		
7.1	System Consistency Check Rept	36.16.23.1 - utsyscon.p	
7.2	Financials Consistency Check	36.16.23.2 - utfincon.p	
7.3	Post Conversion Integrity Check	36.16.23.3 - acinckrp.p	
7.4	Opererational Account Structure Validation	36.9.20 - uxacval.p	eB3
7.5	Reconciliation Reports		
7.5a	AR Reconciliation Report	36.16.23.9	
7.5b	AP Reconciliation Report	36.16.23.10	
	Post-conversion Reports		
8.1	Trial Balance		
8.2	Balabnce Sheet		
8.3	Income Statement		
8.4	Customer Aging Analysis		
8.5	Supplier Agin Analysis		
8.6	Inventory Valuation as of Date		
8.7	Unmatched PO Receipts as of Date		
8.8	Asset Owned Report (Fixed Assets Valuation		
8.9	Open Sales Order Balances		
	Suggested Process Flow & Static data Validation		
9.1	Process Flow Validations		
9.1a	Sales Order - AR Process		
9.1b	Purchase Order - AP Process		
9.1c	Round Trip		
9.2	Static Data Validation		

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Post-conversion Steps 3

Overview of Post-conversion Steps

Step Seq	Step Name	File Name	MFG/PRO Release
	Post-conversion Set-Up		
	Mandatory		
10.1	**Structured Reports**		
10.1a	Balance Sheet		
10.1b	Income Statement		
10.3	**Invoice Status Codes**		
10.4	**Daybooks**		
10.4a	Daybook		
10.4b	Daybook Sets		
10.5	**Security**		
10.5a	Roles and Permissions		
10.5b	Update Domain/Entity/User		
10.6	**Tax Periods**		
10.7	**Reporting Periods**		
10.8	**Profiles**		
10.8a	Sub-Account Profiles		
10.8b	Cost Center Profiles		
10.8c	Project Profiles		
10.8d	Customer Account Profiles		
10.8e	Purchase Account Profiles		
10.8f	Sales Account Profiles		
10.9g	**Configure Daemons**		
	Non-Mandatory		
10.11	**Accounting Layers**		
10.12	**Cash Groups**		
10.13	**Report Structures**		
10.14	**Taxes**		
10.14a	Tax Codes		
10.14b	Tax Boxes		
10.14c	Tax Groups		
10.14d	Update Tax Rates		
10.14e	Posting Tax Group Update		
10.15	**Supplementary Analysis Fields**		
10.16	**Customer Credit Checking**		
10.17	**Customer/Supplier Pmt Statuses**		
10.18	**Customer/Supplier Control Accts**		
10.19	**Additional Profiles**		

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Post-conversion Utilities

Post-conversion Utilities

- Fixed Assets Migration Utility
- Table Extension Domain Conversion – Part 2
- Sales Order Balance Update
- Document Credit Terms

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Fixed Assets Migration Utility

Post-conversion Utilities

- Fixed Assets Migration Utility

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Fixed Assets Migration Utility 2

Fixed Assets Migration Utility

- Users on MFG/PRO 8.6e or 9.0 who use the original Fixed Assets module, must upgrade to the Enhanced Fixed Assets when upgrading to QAD EE
- The legacy data is dumped during conversion. Run this utility to load the legacy data into the new tables
- Only run this utility when upgrading from MFG/PRO 8.6e or 9.0. Refer to the Fixed Assets Conversion chapter in the *QAD SE User Guide* for more information

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Table Extension Domain Conversion - Part 2

Post-conversion Utilities

- Fixed Assets Migration Utility
- Table Extension Domain Conversion – Part 2

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Table Extension Domain Conversion - Part 2 (continued)

Table Extension Domain Conversion – Part 2

- These utilities complete the conversion of data previously held in table extension records. Execute only one of these menu items
- The pertinent menu option must be run for each active domain in the system
  - Users upgrading to QAD EE from eB2 or eB2.1 with any Service Pack before SP 6 must run the utility at menu 5.25.7
  - Users upgrading to QAD EE from eB2.1 SP 6 or higher must run the utility at menu 5.25.8

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Sales Order Balance Update

Post-conversion Utilities

- Fixed Assets Migration Utility
- Table Extension Domain Conversion – Part 2
- Sales Order Balance Update

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Sales Order Balance Update 2

Sales Order Balance Update

- This utility recalculates the open sales order balance by customer and updates the outstanding balance on the customer master.
- This balance is checked when a credit check is performed and the Include Sales Order flag is checked.

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Document Credit Terms

Post-conversion Utilities

- Fixed Assets Migration Utility
- Table Extension Domain Conversion – Part 2
- Sales Order Balance Update
- Document Credit Terms

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Document Credit Terms 2

Document Credit Terms

- Any credit term that has a fixed due date or multiple stages and references a credit term with a fixed due date is not converted.
- This utility updates various documents (calls, invoice history, sales orders, purchase orders, service contracts, price list detail, sales quotes) of the user's choosing with a user-specified credit terms code. This credit terms code is applied to any documents meeting the selection criteria that have blank or invalid credit terms assigned to them.
- The utility must be run for each domain and separately for each document type.

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Post-conversion Data Validations

Post-conversion Data Validations

- System Consistency Check
- Financial Consistency Check
- Post-conversion Integrity Check
- Operational Account Structure Validation
- Reconciliation Reports
  - AR Reconciliation Report
  - AP Reconciliation Report

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System Consistency Check

Post-conversion Data Validations

- System Consistency Check

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System Consistency Check 2

System Consistency Check

- 36.16.23.1 or utsyscon.p
- This utility ensures that master data, which is maintained in the Financials and replicated to the operational part, remains consistent.
- If there is a record in the operational part of the system, there must be a record in the financials and vice versa.
- This check ensures that new records were created in the Financials by the conversion for every master record in the original version.

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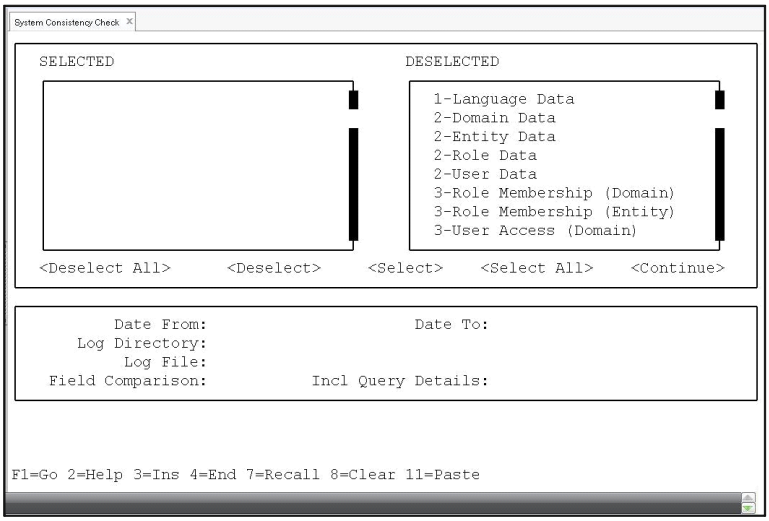
System Consistency Check 3

System Consistency Check

Type System Consistency Check in the .NET UI or 36.16.23.1 (utsyscon.p) in CHUI



System Consistency Check 4

System Consistency Check

The resulting report contains a summary and details of any inconsistencies

```
-----------------------------------------------------------------------------------------
2009-05-12>02:49:21: REPORT STATISTICS
                                White Missing * MFGPRO Missing * Inconsistent
         ok 1-Language Data                0 *              0 *            0
         ok 2-Domain Data                  0 *              0 *            0
         ok 2-Entity Data                  0 *              0 *            0
         ok 2-Role Data                    0 *              0 *            0
         ok 2-User Data                    0 *              0 *            0
         ok 3-Role Membership (D           0 *              0 *            0
         ok 3-Role Membership (E           0 *              0 *            0
         ok 3-User Access (Domai           0 *              0 *            0
         ok 3-User Access (Entit           0 *              0 *            0
        ERR 4-Menu Data                    0 *              1 *            0
        ERR 5-Address Data                 0 *              8 *            0
         ok 5-Country Data                 0 *              0 *            0
         ok 5-Credit Terms Data            0 *              0 *            0
         ok 5-Credit Terms Stage           0 *              0 *            0
         ok 5-Currency Data                0 *              0 *            0
        ERR 5-Exchange Rate Data           9 *              9 *            0
         ok 5-GL Calendar Data             0 *              0 *            0
         ok 5-GL Period Data               0 *              0 *            0
         ok 5-Rounding Method Da           0 *              0 *            0
         ok 6-Cost Center Data             0 *              0 *            0
         ok 6-Daybook Data                 0 *              0 *            0
         ok 6-GL Account Data              0 *              0 *            0
         ok 6-GL Mask Data                 0 *              0 *            0
         ok 6-Project Data                 0 *              0 *            0
         ok 6-Sub-Account Data             0 *              0 *            0
         ok 6-Tax Data                     0 *              0 *            0
         ok 7-Customer Data                0 *              0 *            0
        ERR 7-Employee Data               80 *             12 *            0
        ERR 7-End User Contact D           9 *              0 *            2
        ERR 7-End User Data                1 *              0 *            0
         ok 7-Supplier Data                0 *              0 *            0
        ERR 8-AP Matching Data            82 *              0 *            0
        ERR 8-AR Invoice Data              0 *             30 *            0
        ERR 8-Posting Data                 0 *             83 *            0
-----------------------------------------------------------------------------------------

2009-05-12>02:49:21: >>>> Finished System Consistency Check <<<<
```

Financials Consistency Check

Post-conversion Data Validations

- System Consistency Check
- Financials Consistency Check

QAD

Financial Consistency Check 2

Financial Consistency Check

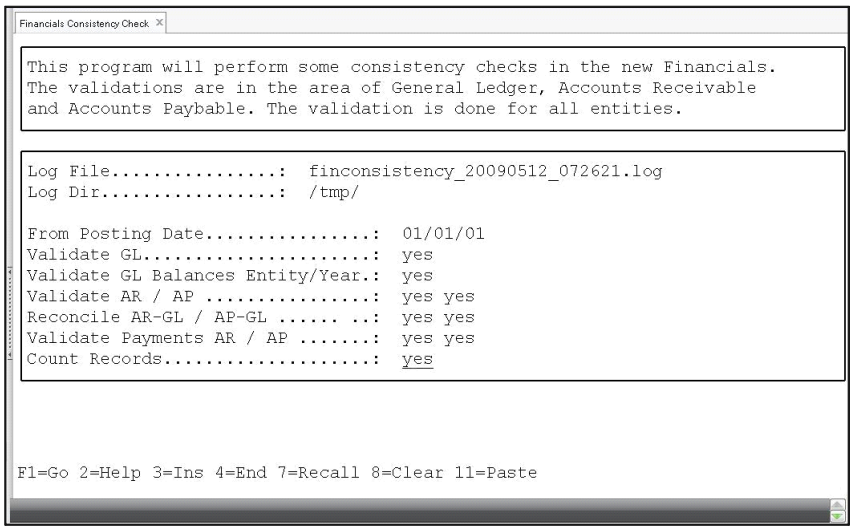
- 36.16.23.2 or utfincon.p
- This utility validates the consistency, completeness, and integrity of converted financial data and that all table structures in the new Financials are as they should be and that their links are correct.
- It validates some balances (AR, AP) to ensure transactions balance across entities with regard to debits and credits and that the sub-ledgers balance to GL.

QAD

Financial Consistency Check 3

Financial Consistency Check

Type Financial Consistency Check in the .NET UI or 36.16.23.2 (utfincon.p) in CHUI



Financial Consistency Check 4

Financial Consistency Check

The resulting report contains the details of any inconsistencies

```
2009-05-11>04:03:34: >>>> START COUNTING <<<<
        Posting#= 1410
        PostingLine#= 3099
        PostingHist#= 477
        QPostingLine#= 0

        DInvoice#= 42
        DInvoiceMovement#= 48
        QDInvoiceMovement#= 0
        DHist#= 28

        CInvoice#= 48
        CInvoiceMovement#= 85
        QCInvoiceMovement#= 0
        CHist#= 29

        CDocument#= 36
        CCollection#= 8
        CDocumentInvoiceXref#= 37
        CDocInvoiceXrefStage#= 0

        DDocument#= 10
        DCollection#= 6
        DDocumentInvoiceXref#= 10
        DDocInvoiceXrefStage#= 0
2009-05-11>04:03:34: >>>> END COUNTING <<<<


2009-05-11>04:03:34: >>>> Start Validation of GL (01/01/00) <<<<<
        POSTING;590842;Posting not in balance for CC amounts;04/26/09;mfg
        PostingLine;591858;Transactions without sub-accounts found on account which is enabled for sub-accounts; 04/26/09;mfg
        PostingLine;591872;Transactions without sub-accounts found on account which is enabled for sub-accounts; 04/26/09;mfg
        PostingLine;590887;Transactions on costcentres found on account which is disabled for costcentres; 04/26/09;mfg
        PostingLine;590987;Transactions on costcentres found on account which is disabled for costcentres; 04/26/09;mfg
        PostingLine;591885;Transactions without sub-accounts found on account which is enabled for sub-accounts; 04/26/09;mfg
        PostingLine;591958;Transactions without sub-accounts found on account which is enabled for sub-accounts; 04/26/09;mfg
        PostingLine;591946;Transactions without sub-accounts found on account which is enabled for sub-accounts; 04/26/09;mfg
        PostingLine;590900;Transactions on costcentres found on account which is disabled for costcentres; 04/26/09;mfg
        PostingLine;591227;Transactions on costcentres found on account which is disabled for costcentres; 04/26/09;mfg
        PostingLine;591203;Transactions on costcentres found on account which is disabled for costcentres; 04/26/09;mfg
```

Post-conversion Integrity Check

Post-conversion Data Validations

- System Consistency Check
- Financials Consistency Check
- Post-conversion Integrity Check

QAD

Post-conversion Integrity Check 2

Post-conversion – Integrity Check

- 36.16.23.3, acinckrp.p
- A post-conversion report provided to assess the status of financial transaction data after conversion.
- The corresponding pre-conversion report (gpinckrp.p) must be run prior to the conversion. If not, the contents of the report will be inaccurate.
- The report is split across domains with one section per domain. Each domain section is broken down into these three sub-sections:
  - GL Transaction Integrity
  - AR Transaction Integrity
  - AP Transaction Integrity
- Should show the data is in the same condition as before conversion with the exception of any unbalanced GL transactions from the current period, which were balanced by the conversion.
- Report can be run in summary or detail mode.

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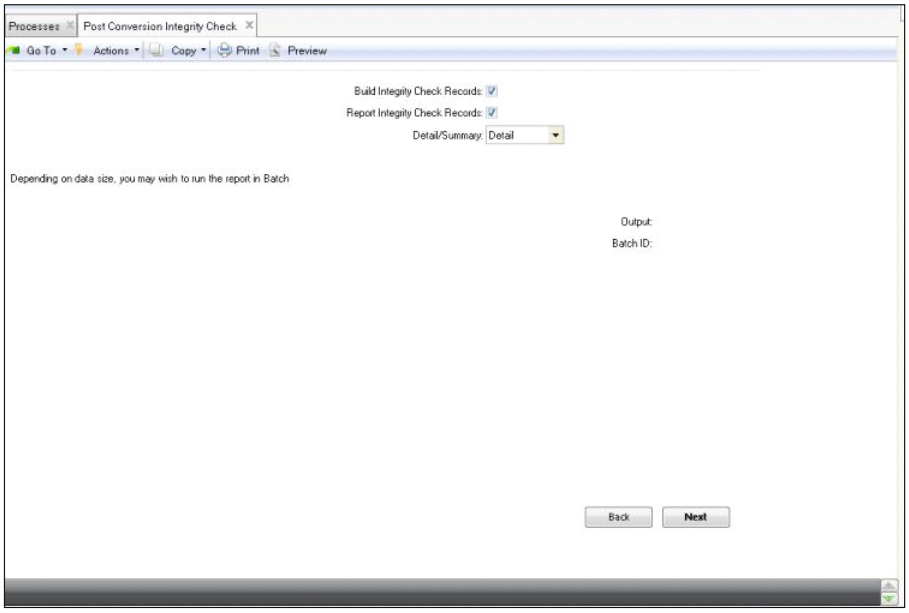
Post-conversion Integrity - Menu

Post-conversion Integrity – Menu



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Post-conversion - GL Integrity (Sum)

Post-conversion – GL Integrity (Sum)

Summary mode only displays accounts where differences are found

```
Domain:  Domain1

GL Balance Validation
   Entity    Account     Balance Preconv   Balance Postconv         Difference Conversion Account
   --------- -------- ------------------ ------------------ ------------------ ------------------
   6000      440000               407.72             407.74               0.02 QAD-0086
   6000      410000               100.00             100.05               0.05 QAD-0085
   6000      430000               404.87             404.84               0.03 QAD-0086
   6000      460000               301.99             309.00               8.99 QAD-0086
   6000      480000               1024.00            1022.55              2.45 QAD-0086
```

Post-conversion - GL Integrity (Detail)

Post-conversion – GL Integrity (Detail)

Detail mode shows all accounts even when there are no differences between the pre- and post-conversion amounts

Domain: Domain1

GL Balance Validation

Entity	Account	Balance Preconv	Balance Postconv	Difference	Conversion Account
6000	000000	0.00	0.00	0.00	
6000	003500	0.00	0.00	0.00	
6000	022000	0.00	0.00	0.00	
6000	023000	0.00	0.00	0.00	
6000	050100	108,267.00	108,267.00	0.00	
6000	051100	721,164.70	721,164.70	0.00	
6000	053100	3,865,197.00	3,865,197.00	0.00	
6000	053900	0.00	0.00	0.00	
6000	054000	92,021.00	92,021.00	0.00	
6000	055000	123,326.00	123,326.00	0.00	
6000	056000	0.00	0.00	0.00	
6000	056100	114,251.00	114,251.00	0.00	
6000	056200	431,145.00	431,145.00	0.00	
6000	059000	0.00	0.00	0.00	
6000	070000	4,383,915.00	4,383,915.00	0.00	
6000	073000	0.00	0.00	0.00	
6000	075100	207,514.00	207,514.00	0.00	
6000	075200	0.00	0.00	0.00	

Post-conversion - AR Integrity

Post-conversion – AR Integrity

AR Account Validation

Entity	Account	Balance Preconv	Conv Acct Balance	Conversion Account	Balance Postconv	Difference
6000	240000	0.00	0.00	QAD-0062	0.00	0.00
6000	240001	0.00	0.00	QAD-0063	0.00	0.00
6000	240002	0.00	0.00	QAD-0064	0.00	0.00
6000	250003	0.00	0.00	QAD-0065	0.00	0.00
6000	250005	0.00	0.00	QAD-0066	0.00	0.00
6000	250007	0.00	0.00	QAD-0067	0.00	0.00
6000	250010	21,669.62	0.00	QAD-0068	21,669.62	0.00
6000	250012	0.00	0.00	QAD-0069	0.00	0.00
6000	250014	0.00	0.00	QAD-0070	0.00	0.00
6000	250017	0.00	0.00	QAD-0071	0.00	0.00
6000	250030	0.00	0.00	QAD-0072	0.00	0.00
6000	250032	0.00	0.00	QAD-0073	0.00	0.00
6000	250041	0.00	0.00	QAD-0074	0.00	0.00
6000	250042	0.00	0.00	QAD-0075	0.00	0.00
6000	250043	0.00	0.00	QAD-0076	0.00	0.00
6000	250044	12,936.00	0.00	QAD-0077	12,936.00	0.00
6000	250045	0.00	0.00	QAD-0078	0.00	0.00
Total		34,605.62	0.00		34,605.62	0.00

Post-conversion AP Integrity

Post-conversion – AP Integrity

AP Account Validation

Entity	Account	Balance Preconv	Conv Acct Balance	Conversion Account	Balance Postconv	Difference
6000	440000	-36,407.68	0.00	QAD-0025	-36,407.68	0.00
6000	440001	0.00	0.00	QAD-0026	0.00	0.00
6000	440002	-2,315,203.57	0.00	QAD-0027	-2,315,203.57	0.00
6000	465012	-830.00	0.00	QAD-0034	-830.00	0.00
6000	465013	0.00	0.00	QAD-0035	0.00	0.00
6000	465014	-231,902.19	0.00	QAD-0036	-231,902.19	0.00
6000	465015	0.00	0.00	QAD-0037	0.00	0.00
6000	465016	0.00	0.00	QAD-0038	0.00	0.00
6000	465017	0.00	0.00	QAD-0039	0.00	0.00
6000	465018	-30,844.61	0.00	QAD-0040	-30,844.61	0.00
6000	465020	0.00	0.00	QAD-0041	0.00	0.00
6000	465030	0.00	0.00	QAD-0042	0.00	0.00
6000	465031	0.00	0.00	QAD-0043	0.00	0.00
6000	465032	-604.48	0.00	QAD-0044	-604.48	0.00
6000	465039	0.00	0.00	QAD-0051	0.00	0.00
6000	465040	-72,888.38	0.00	QAD-0052	-72,888.38	0.00
6000	465046	0.00	0.00	QAD-0058	0.00	0.00
6000	465047	0.00	0.00	QAD-0059	0.00	0.00
6000	465048	0.00	0.00	QAD-0060	0.00	0.00
6000	465049	0.00	0.00	QAD-0061	0.00	0.00
Total		-2,688,680.91	0.00		-2,688,680.91	0.00

Operational Account Structure Validation

Post-conversion Data Validations

- System Consistency Check
- Financial Consistency Check
- Post-conversion Integrity Check
- Operational Account Structure Validation

QAD

Operational Account Structure Validation 2

Operational Account Structure Validation

- 36.9.20 or uxacval.p
- This report checks all of the places in the system where default GL accounts, sub-accounts, and cost centers can be specified and are used to create GL transactions in the operational modules (for example, Product Line Maintenance, Department Maintenance, and so on). It reports any invalid combinations.
- Invalid combinations could exist for a number of reasons, but more typically when accounts, sub-accounts, and cost centers are made inactive. Such invalid settings can result in GL transactions that cannot be posted to the Financials.
- Users should manually correct errors reported by this function to prevent the generation of invalid GL transactions. If all combinations are valid, the Verify GL Accounts flag in Domain / Account Control is set to Yes.
- This report must be run for each active domain.

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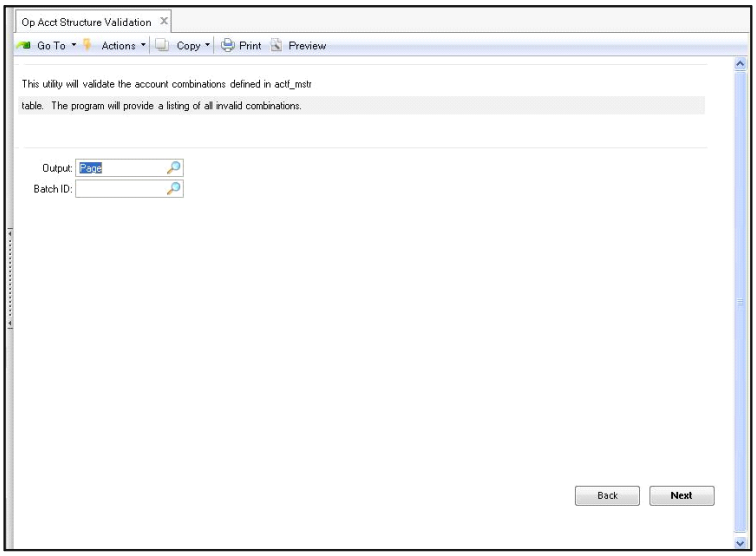
Operational Account Structure Validation 3

Operational Account Structure Validation

Type Op Acct Structure Validation in the .NET UI or 36.9.20 (uxacval.p) in CHUI



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Operational Account Structure Validation 4

Operational Account Structure Validation

The resulting report contains the details of any conflicts

```
uxacval.p 3+                          36.9.20 Op Acct Structure Validation                    Date: 05/11/09
Page:    1                                     DOM1 USD DB NY                                 Time: 04:12:30

**** Invalid Accounts Exist.


Menu Name                                      Table Name          Reference                                                   Account Field Name
---------------------------------------------- ------------------- ----------------------------------------------------------- ------------------------------
Inventory Account Maintenance(1.2.13)          pld_det             Domain1!2000!12000!200                                      Inventory Acct
                                                                   ** Invalid account number combination.

Inventory Movement Code Maint(1.1.9)           im_mstr             Domain1!CustShip                                            Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!ISS-DO                                              Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!ISS-PRV                                             Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!ISS-TR                                              Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!ISS-UNP                                             Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!ISS-WO                                              Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!MFG-CUST                                            Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!Mfg-DIST                                            Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!RCT-PO                                              Unplanned Account
                                                                   ** Valid non-blank account number required.

                                                                   Domain1!RCT-PROS                                            Unplanned Account
                                                                   ** Valid non-blank account number required.
```

Reconciliation Reports

Post-conversion Data Validations

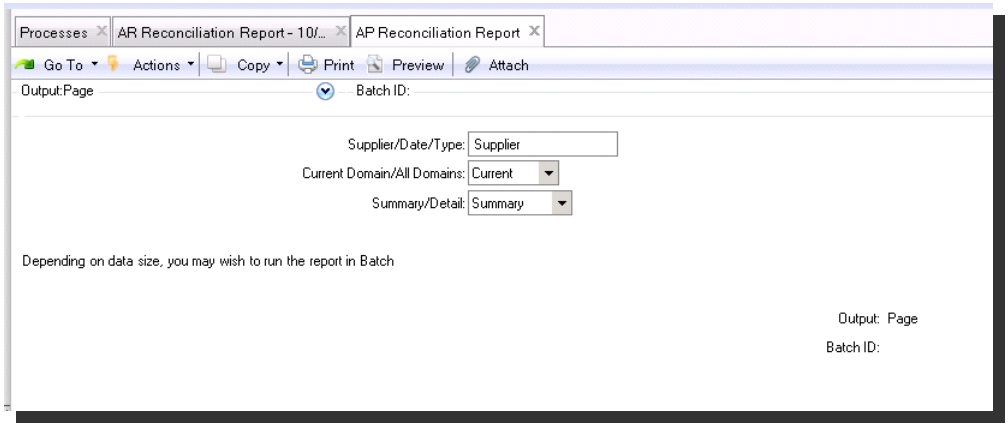
- System Consistency Check
- Financial Consistency Check
- Post-conversion Integrity Check
- Operational Account Structure Validation
- Reconciliation Reports
  - AR Reconciliation Report
  - AP Reconciliation Report

QAD

Reconciliation Reports 2

Reconciliation Reports

- AR: arpcrnrp.p 36.16.23.9
- AP: appcrnrp.p 36.16.23.10



QAD

Reconciliation Reports 3

Reconciliation Reports

- The main purpose of this set of reports is to allow the user to identify items that are out of balance just after the conversion.
- Summary mode only displays the items that are out of balance, while detail mode displays all open items, whether they are balanced or not.
- The report can be sorted by customer or supplier (depending on which report is run), item type, or date. The user can run the report just for the current domain or across all domains.
- After an item is reconciled, subsequent runs of the report will not display these items.

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Reconciliation Reports 4

Reconciliation Reports

- In customer/supplier mode, the report displays the Domain, customer/supplier, item type, pre-conversion reference, pre-conversion base & currency balances, post-conversion reference, post-conversion base & currency balances, and the differences between the pre- and post-conversion amounts (if one exists). This version of the report is ordered by customer or supplier.
- In date mode, the report displays the same as above, except it displays the item date instead of customer and type. The report is ordered by date.
- When in type mode, the report displays the same columns as in customer/supplier mode. However, the results are ordered by Item type.

QAD

Reconciliation Reports 5

Reconciliation Reports

Sample AR Report ordered by customer

Processes | AR Reconciliation Report - 10/.. | AP Reconciliation Report

QAD

AR Reconciliation Report

10/13/10 22:08:29

DOM1 USD DB NY

Page:1

Customer	Type	Reference	Balance LC	Balance TC	Reference	Balance LC	Balance TC	Difference	Difference
Domain1									
---									
mike	M	m10	0.00	0.00	53	-2,469.14	-2,469.14	2,469.14	2,469.14
mike	M	m11	0.00	0.00	54	-2,690.00	-2,690.00	2,690.00	2,690.00
mike	M	m12	0.00	0.00	55	-8,712.24	-8,712.24	8,712.24	8,712.24
mike	M	m13	0.00	0.00	56	-4,686.46	-4,686.46	4,686.46	4,686.46
mike	M	m14	0.00	0.00	57	-2,462.42	-2,462.42	2,462.42	2,462.42
mike	M	m15	0.00	0.00	58	-17,550.44	-17,550.44	17,550.44	17,550.44
mike	M	m16	0.00	0.00	59	-6,948.48	-6,948.48	6,948.48	6,948.48
mike	M	m17	0.00	0.00	60	-6,986.78	-6,986.78	6,986.78	6,986.78
mike	M	m18	0.00	0.00	61	-5,087.10	-5,087.10	5,087.10	5,087.10
mike	M	m19	0.00	0.00	62	-2,342.53	-2,342.53	2,342.53	2,342.53
mike	M	m20	0.00	0.00	64	-123,454.20	-123,454.20	123,454.20	123,454.20
mike	M	m21	0.00	0.00	65	-12,344.33	-12,344.33	12,344.33	12,344.33
mike	M	m22	0.00	0.00	66	-1,234.30	-1,234.30	1,234.30	1,234.30
mike	M	m23	0.00	0.00	67	-1,234.30	-1,234.30	1,234.30	1,234.30
mike	M	m24	0.00	0.00	68	-275.54	-275.54	275.54	275.54
mike	M	m25	0.00	0.00	69	-153,090.00	-153,090.00	153,090.00	153,090.00
mike	M	m26	0.00	0.00	70	-135,089.36	-135,089.36	135,089.36	135,089.36
mike	M	m27	0.00	0.00	71	-90,934.00	-90,934.00	90,934.00	90,934.00
mike	M	m28	0.00	0.00	1	12,690.66	12,690.66	-12,690.66	-12,690.66
mike	M	mike97	0.00	0.00	76	-3,000.00	-3,000.00	3,000.00	3,000.00
mike	M	mike98	0.00	0.00	77	-1,000.00	-1,000.00	1,000.00	1,000.00
---			---	---		---	---	---	---
Sub-Total			0.00	0.00		-568,900.96	-568,900.96	568,900.96	568,900.96

QAD

Post-conversion Reports

Post-conversion Reports

- Trial Balance
- Balance Sheet
- Income Statement
- Customer Aging Analysis
- Supplier Aging Analysis
- Inventory Valuation as of Date
- Unmatched PO receipts as of Date
- Asset Owned report (Fixed Assets Valuation)
- Open Sales Order Balances

QAD

Process Flow & Static Data Validation

Suggested Process Flow & Static Data Validation

- Sales Order – AR Process
  - Sales Quotes
  - Sales Quote Release to Order
  - Sales Orders
  - Sales Order Shipment
  - Invoice Post and Print
  - Customer Statement
  - AR Payment
- As per customer implementation, the following should be considered within the above process test:
  - Discreet /Scheduled Orders
  - Inventory / Memo Orders
  - Shipments / Returns (include enhanced shipping)
  - Despatch Documents
  - Correction Orders
  - Consolidated Invoicing
  - Required payment formats (for example, Cheque, Electronic, Draft, and so on)
  - Consignment Inventory
  - SSM
  - Credit Checking
  - Multi Currency

QAD

Process Flow & Static Data Validation 2

Suggested Process Flow & Static Data Validation

- Purchase Order – AP Process
  - Purchase Requisitions
  - Requisition Release to PO
  - Purchase Order
  - PO Receipt
  - Supplier Invoice
  - Invoice Matching
  - AP Payment
- As per customer implementation, the following should be considered within the above process test:
  - Standard / Global Requisitions
  - Discreet /Scheduled Orders / Blanket Orders
  - Inventory / Memo Orders / Sub-Contract
  - PO Receipt / Return to Vendor (RTV)
  - Evaluated Receipts Settlement (ERS)
  - Consignment Inventory
  - Supplier Performance
  - Required payment methods (for example, Cheque, Electronic, Draft, and so on)
  - Multi Currency

QAD

Process Flow & Static Data Validation 3

Suggested Process Flow & Static Data Validation

- Round trip
  - Create demand for MRP (for example, Sales Order, Forecast)
  - Run MRP
  - Approve Work Orders / Planned Purchase Orders
  - Process Purchase Orders and Purchase Order Receipts
  - Process Work Orders (Issue, Receipt, Close, Accounting Close)
  - Delivery and Picking Documents
  - Ship Sales Orders
  - Create Invoices (Customer / Supplier)
  - Pay Invoices (Customer / Supplier)
- As per customer implementation, the following should be considered within the above process test:
  - Shop Floor Control
  - Repetitive / Advanced Repetitive
  - Sub Contract Work Orders
  - Logistics Accounting
  - Configured Products
  - EDI
  - Price Lists
  - Tax and Intrastat

QAD

Process Flow & Static Data Validation 4

Suggested Process Flow and Static Data Validation

- Static data validation
  - Credit Terms
  - Daybooks / Daybook Sets /Default Daybooks
  - GL Accounts / Sub-Accounts / Cost Centres / Projects / GL Mask
  - Accounting and Operation Control (e.g. Sales Order Control, Domain/Acct Control)
  - Business Relations
  - Customer / End User / Ship-to / Bill-to data
  - Suppliers / Remit-to data
  - Other Addresses (Sales Person, Company)
  - Payment Formats
  - Product Lines / Inventory Account Maintenance / Sales Account Maintenance
  - Tax Type, Class, Usage, Base, Zone, Environment, Rate
- The above list is incomplete and may need to be extended depending on individual implementations

QAD

Post-conversion Set Up - Mandatory Data

Post-conversion Set Up – Mandatory Data

Structured Reports

- Balance Sheet

  The Balance Sheet Report (25.15.5.4) runs based on report structures implemented using the Budget function. The system constructs the balance sheet based on the accounts specified in the report structure. All other accounts are excluded. Refer to the *QAD EE Financials User Guide* for more information

- Income Statement

  The Income Statement Report (25.15.5.5) runs based on report structures implemented using the Budget function. The system constructs the income statement based on the accounts specified in the report structure. All other accounts are excluded. Refer to the *QAD EE Financials User Guide* for more information

QAD

Post-conversion Set Up - Mandatory Data 2

Post-conversion Set-up – Mandatory Data

Invoice Status Codes

Rename or replace codes provided by the conversion. The conversion only creates three invoice status codes. Consider the number of codes needed for receiver and financial matching. Decide at what point in the process invoices are deemed to be approved, released for payment, and so on. Set up new status codes and assign them to suppliers (and customers) as appropriate. Refer to the *QAD EE Financials User Guide* for more information

QAD

Post-conversion Set Up - Mandatory Data 3

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User
- Tax Periods
- Reporting Periods
- Profiles
- Configure Daemons

QAD

Daybooks

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook sets

QAD

Daybooks 2

Daybooks

- Daybooks

  Decide if any further reporting granularity is required. Add new daybooks as necessary and assign to transaction types using Default Daybook Maintenance. Optionally, delete or deactivate any unused daybooks.

- Daybook Sets

  At least one daybook set is mandatory. Additional daybook sets may be used to facilitate multiple invoice/credit note number ranges. Their use is optional. Daybook sets can be defined for an entire domain or for individual sites. In the latter case, the daybooks sets must be assigned to the desired sites. Refer to the *QAD EE Financials User Guide* for more information.

QAD

Security

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook Sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User

QAD

Security 2

Security

- Roles and Permissions
  - Roles and permissions are similar to User Group Maintenance and Menu Security Maintenance in older versions of MFG/PRO for granting access by role.
  - Set up notification roles, including e-mail notification, and associated users for customers, suppliers, end users and engineers.
- Update Domain/Entity/User

  Grant access by user to entities and domains.

QAD

Tax Periods

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook Sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User
- Tax Periods

QAD

Tax Periods 2

Tax Periods

Tax periods need to be created from the GL calendar unless the Create Entity Tax Periods parameter for each domain in the Conversion Parameters Utility was set to Yes

QAD

Reporting Periods

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook Sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User
- Tax Periods
- Reporting Periods

QAD

Reporting Periods 2

Reporting Periods

Set up Reporting Periods if Budgeting is used. Report periods are used to mark a specific time span for producing budget reports. Reporting periods are independent of GL periods and tax periods, and can span multiple GL periods across multiple entities

QAD

Profiles

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook Sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User
- Tax Periods
- Reporting Periods
- Profiles

QAD

Profiles 2

Profiles

- The conversion creates the required profiles for each element in a GL transaction. These profiles must be reviewed to verify they are linked to the correct shared set.
  - Sub-account Profiles
  - Cost Center Profiles
  - Project Profiles
- Additionally, the account codes for the specialized account profiles must be reviewed to ensure that the correct default sub-account, cost center and project codes (as well as their associated linked shared sets) are set for each specialized account.
  - Customer Account Profiles
  - Purchase Account Profiles
  - Sales Account Profiles

QAD

Configure Daemons

Post-conversion Set Up – Mandatory Data

- Daybooks
  - Daybooks
  - Daybook Sets
- Security
  - Roles and Permissions
  - Update Domain/Entity/User
- Tax Periods
- Reporting Periods
- Profiles
- Configure Daemons

QAD

Configure Daemons 2

Configure Daemons

- The History and Balance daemons are mandatory for correct operation of the system. The budget and replication daemons should also be reviewed for correct configuration.
- For more information on system daemons, see *User Guide: QAD System Administration*.

QAD

Post-conversion Set Up - Non-mandatory Data

Post-conversion Set Up – Non-mandatory Data

- Accounting Layers
- Cash Groups
- Report Structures
- Taxes
  - Tax Codes
  - Tax Boxes
  - Tax Groups
  - Update Tax Rates
  - Posting Tax Group Update
- Supplementary Analysis Fields
- Customer Credit Checking
- Customer/Supplier Payment Statuses
- Customer/Supplier Control Accounts
- Additional Profiles

QAD

Post-conversion Set Up - Non-mandatory Data 2

Post-conversion Set Up – Non-mandatory Data

- Accounting Layers

  The conversion creates transient and official layers. Add any additional layers desired such as adjustments, internal reporting, and so on.

- Cash Groups

  Cash groups are used to group GL accounts for cash flow reporting purposes. Define new cash group(s) for petty cash (as opposed to the bank account(s) for AR, AP and Payroll). Once cash groups are defined, they must be assigned to the required GL account codes.

- Report Structures

  Define any desired new reports.

QAD

Taxes

Post-conversion Set Up – Non-mandatory Data

- Accounting Layers
- Cash Groups
- Report Structures
- Taxes
  - Tax Codes
  - Tax Boxes
  - Tax Groups
  - Update Tax Rates
  - Posting Tax Group Update

QAD

Taxes 2

Post-conversion Set Up – Non-mandatory Data

Taxes

QAD EE has a new concept called Tax Groups. With tax groups (and boxes) the user can set up tax reporting. During normal transaction processing, the application populates the tax transaction with the tax group defined against the tax rate(s)

1. Tax Codes

   Define any new tax codes needed to take advantage of new functionality such as Suspended/Delayed taxes

2. Tax Boxes

   Tax boxes contain the individual elements of a transaction (for example, Tax Amount and Tax Base Amount) as they are reported in official returns to the authorities

3. Tax Groups

   A tax group contains one or more tax boxes

QAD

Taxes 3

Post-conversion Set Up – Non-mandatory Data

Taxes (continued)

4. Update Tax Rates
   Add any new tax groups define to applicable tax rate(s)
5. Posting Tax Group Update
   The conversion creates one default tax group. This default is assigned to transactions until the required set up is defined.
   This utility updates existing tax transactions with new tax groups added to a tax rate. This allows transaction processing to start without the need to define tax groups/boxes.

QAD

Supplementary Analysis Fields and Customer Credit Checking

Post-conversion Set Up – Non-mandatory Data

- Accounting Layers
- Cash Groups
- Report Structures
- Taxes
  - Tax Codes
  - Tax Boxes
  - Tax Groups
  - Update Tax Rates
  - Posting Tax Group Update
- Supplementary Analysis Fields
- Customer Credit Checking

QAD

Supplementary Analysis Fields and Customer Credit Checking 2

Post-conversion Set Up – Non-mandatory Data

- Supplementary Analysis Fields

  Define any SAF codes and assign to accounts, sub-accounts, cost centers if this level of detail analysis is desired. Refer to the *QAD EE Financials User Guide* for more information

- Customer Credit Checking

  Customer credit checking is significantly enhanced in QAD EE. To take full advantage of all of the new capabilities in this area, review the credit checking parameters to ensure that they are set according to the desired behavior for each customer

QAD

Customer/Supplier Payment Statuses and Control Accounts and Additional Profiles

Post-conversion Set Up – Non-mandatory Data

- Accounting Layers
- Cash Groups
- Report Structures
- Taxes
  - Tax Codes
  - Tax Boxes
  - Tax Groups
  - Update Tax Rates
  - Posting Tax Group Update
- Supplementary Analysis Fields
- Customer Credit Checking
- Customer/Supplier Payment Statuses
- Customer/Supplier Control Accounts
- Additional Profiles

QAD

Customer/Supplier Payment Statuses and Control Accounts and Additional Profiles 2

Post-conversion Set Up – Non-mandatory Data

- Customer/Supplier Payment Statuses

  Review/modify and/or create additional payment statuses for customers and suppliers
- Customer/Supplier Control Accounts

  Review/modify and/or create additional the control accounts for customers and suppliers
- Additional Profiles

  Review/modify any new profiles set up for customer and supplier credit notes and prepayments

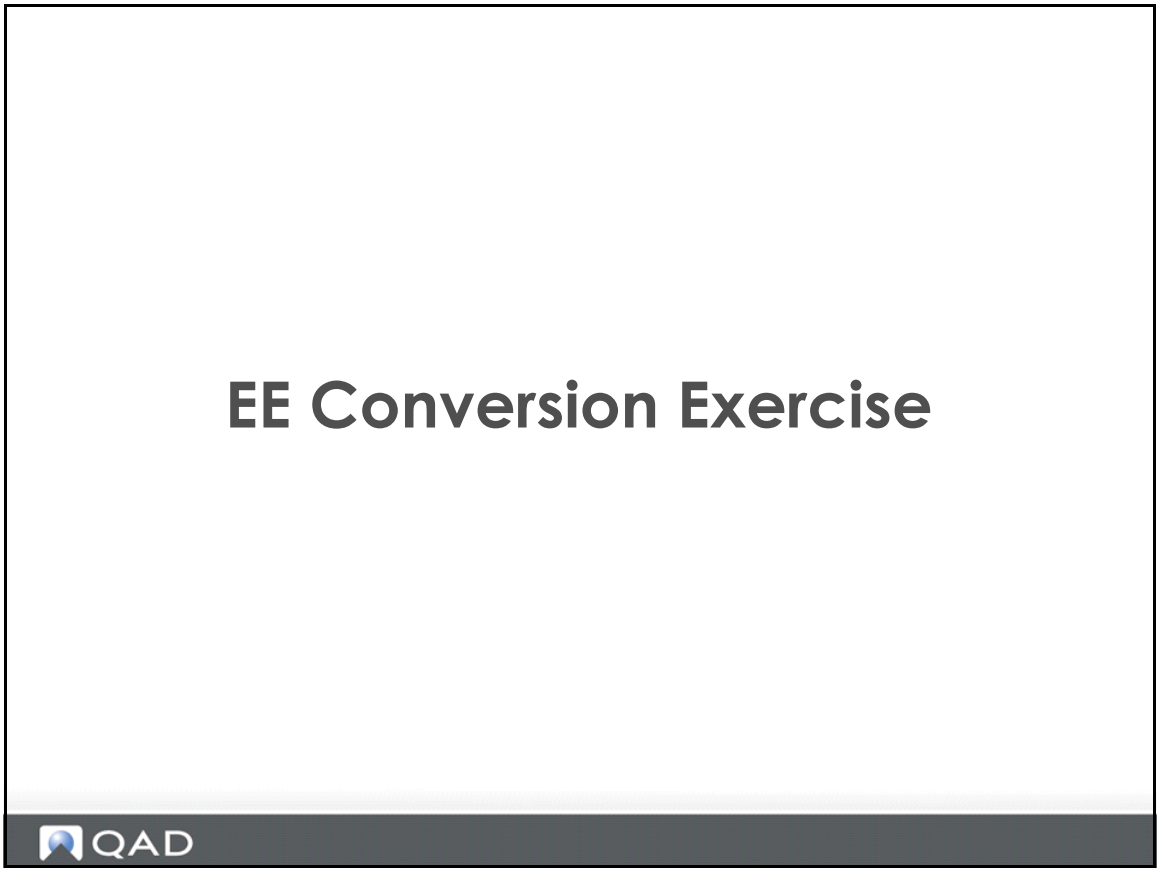
QAD

Questions?

Questions?

QAD

EE Conversion Exercise



Exercise: Post-conversion

Exercise: Post-conversion

- Run the Post-conversion Utilities
- Run the Data Validation Utilities
- Install the .NET UI
- Test the current QAD EE release

QAD

Chapter 5

Upgrading QAD Enterprise Edition

Upgrading QAD EE

Upgrading QAD EE

- This is the process of updating an existing QAD EE environment to a later QAD EE version.
- This includes the following:
  - Software upgrade
  - Database upgrade
    - Schema changes
    - Data changes and conversions

QAD

Upgrade Steps

Overview of Upgrade Steps

1. Prepare the environment.
2. Prepare the source databases.
3. Back up the environment.
4. Install and configure the software.
5. Upgrade set up
6. Upgrade execution
7. Upgrade validation

QAD

Prepare Environment

Prepare Environment

- Define environment variables
  - export DLC=<Progress install directory>
  - export CATALINA_HOME=<Tomcat install directory>
  - export JAVA_HOME=<Java install directory>
- QAD recommends defining these variables in a script that runs when the user logs in to the system.

QAD

Prepare Source Databases

Prepare Source Databases

- If the existing Progress version and the new environment's version are different, you must convert the databases (qaddb and qadadm) to the new Progress version.
- Unlike a pre-EE to Enterprise Edition conversion, pre-conversion work is not required to upgrade an existing Enterprise Edition database.

QAD

Back Up Environment

Back Up Environment

- Back up the existing QDT installation directory.
  - Exit any QDT sessions.
  - Back up the QDT installation directory.
- Back up the QAD Enterprise Edition environment being upgraded.
  - Stop the QAD EE environment by running the script <QDT install directory>/envs/<env name>/scripts/stopenv.<env name>
  - Back up the QAD EE installation directory (including the database directory if it is not included within the QAD EE installation directory structure).

QAD

Back Up Environment 2

Back Up Environment

- Back up folders under the Tomcat WebApps directory.
  - Stop the Tomcat server.
  - Backup folders under $CATALINA_HOME/webapps:
    - epub
    - search
    - qadhome
    - qadui
- Back up the Progress ubroker.properties file
  $DLC/properties/ubroker.properties

QAD

Install and Configure Software

Install and Configure Software

- Migrate QDT to the New Progress Version
  - Install the latest Progress version
  - Then configure QDT and QAD Enterprise Edition to use the latest Progress version

  See Appendix H, "Configuring QDT Upgrade Settings," of the EE Conversion Guide for more information
- Install QDT

  Install over the existing QDT installation the latest QDT version that includes the upgrade and conversion software.

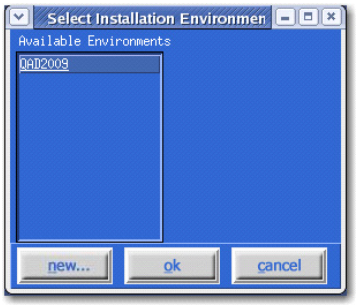
QAD

Install and Configure Software 2

Install and Configure Software

Install Enterprise Edition

- Use the latest QDT version to install QAD Enterprise Edition
- Select the environment to update

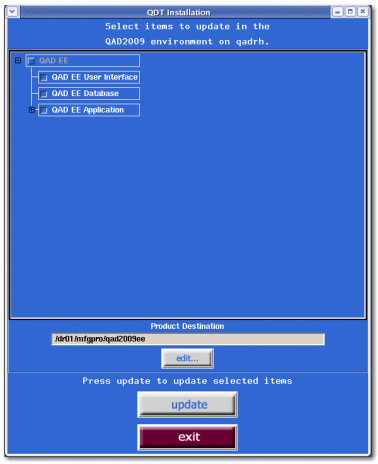


QAD

Install and Configure Software 3

Install and Configure Software

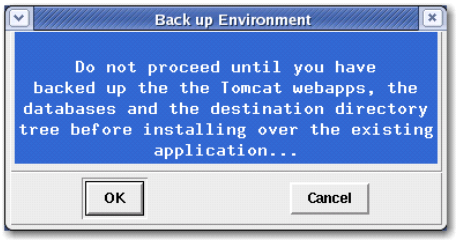
- Verify that the QAD EE User Interface, Database, and Application are selected
- Verify that the Product Destination path points to the existing QAD EE version



Install and Configure Software 4

Install and Configure Software

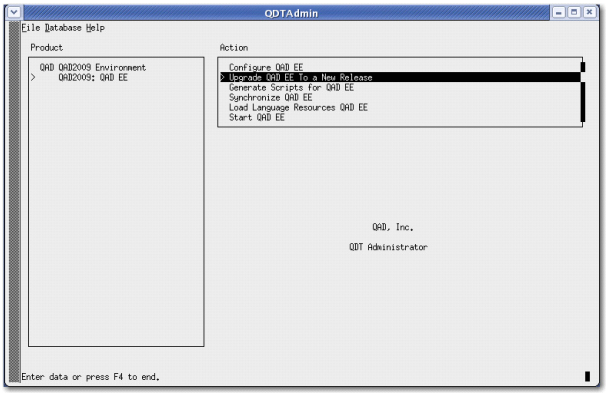
A warning appears to back up the current install. Click OK



Upgrade Set Up

Upgrade Set Up

Select Upgrade QAD EE to a New Release



QAD

Upgrade Set Up 2

Upgrade Set Up

Upgrade Live Main Database

Select Live Main Database: Upgrade Live Main Database

```
Steps In Action Set

  QAD EE Database: Upgrade EE Database Sets
    Empty Database Set: Upgrade QAD EE Empty Database Set
      Empty Main Database: Upgrade Empty Main Database
      Empty Admin Database: Upgrade Empty Admin Database
      Empty Help Database: Upgrade Empty Help Database
    QAD EE Database Set: Upgrade QAD EE Live Database Set
>     Live Main Database: Upgrade Live Main Database
      Live Admin Database: Upgrade Live Admin Database
      Live Help Database: Upgrade Live Help Database
  QAD EE Application: Upgrade QAD EE Application
    EDI Code: Configure EDI Code
    ePublisher: Configure ePub Content

      [ ] Pause Before Executing Selected Actions

                <Edit... >          <Execute >< Cancel >
```

QAD

Upgrade Set Up 3

Upgrade Set Up

Accept the default Delta DF file path

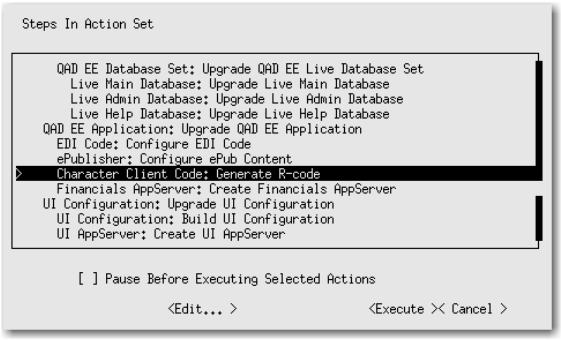
Do not change the path unless you are using a customized Delta DF file

QAD

Upgrade Set Up 4

Upgrade Set Up

Select Character Client Code: Generate R-Code



Upgrade Set Up 5

Upgrade Set Up

Change the Compiler Settings:

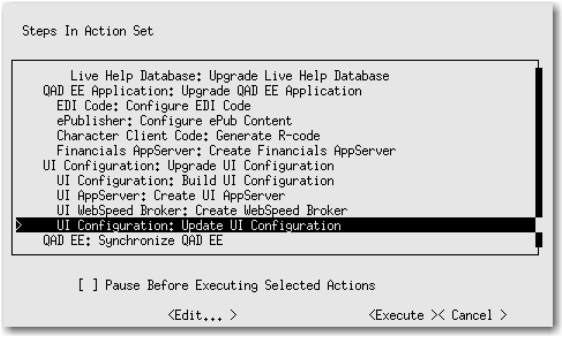
- Multi-thread: Enabled
- Ignore Compile Errors: Enabled
- Compile Threads: Enter the number of CPU cores

```
Compiler Settings                    Container: Character Client Code

                          (X)Staggered QAD EE Default
                          ( )Flat Destination
                          ( )Destination Same as Source

 Compile List File: /dr01/mfgpro/qad2009ee/utcompil.wrk      <Browse>
                    [ ] Generate New List File

   Compile Propath: /dr01/mfgpro/qad2009ee/xrc,/dr01/mfgpr   < Edit >
                    o/qad2009ee/xrc/proxy

      Database Set: Empty Database Set   [V]

 Destination Path: /dr01/mfgpro/qad2009ee                    <Browse>

                    [X] Multi-Thread          Compile Threads: 2
                    [X] Ignore Compile Errors

            < Back >< Next >                  < Done >< Cancel >
```

Upgrade Set Up 6

Upgrade Set Up

Select UI Configuration: Update UI Configuration

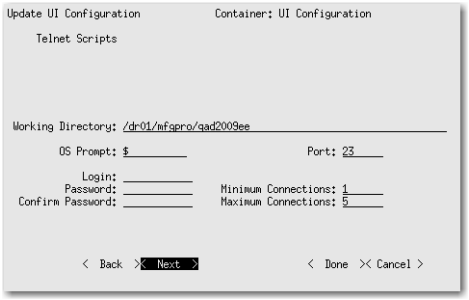


Upgrade Set Up 7

Upgrade Set Up

In the UI configuration screen, make the following changes:

- Working Directory: <defaulted-in for your specific environment>
- Login: mfg
- Password: <mfg user's password>
- Confirm Password: <mfg user's password>



Execute Upgrade

Execute Upgrade

Start the upgrade.

Tab to Execute and press Enter

```
Steps In Action Set

> QAD EE: Upgrade QAD EE To a New Release
    QAD EE: Generate Scripts for QAD EE
      QAD EE Database: Generate Scripts for QAD EE DB
        QAD EE Database Set: Create Live Database Scripts
      QAD EE Application: Generate QAD EE Application Scripts
        Character Client Code: Generate Client Scripts
        Financials AppServer: Generate Scripts for Financials AppServer
        UI Configuration: Generate Scripts for UI Configuration
          UI AppServer: Generate Scripts for UI AppServer
          UI WebSpeed Broker: Generate Scripts for WebSpeed Broker
    QAD EE Database: Upgrade EE Database Sets
      Empty Database Set: Upgrade QAD EE Empty Database Set

        [ ] Pause Before Executing Selected Actions

                <Edit... >              <Execute >< Cancel >
```

QAD

Upgrade Validation

Upgrade Validation

The following QDT screen appears when the upgrade finishes

```
02/25/10 @ 11:22:52 [mfg] -
02/25/10 @ 11:22:52 [mfg] - End execution.
02/25/10 @ 11:22:52 [mfg] - Action:    Upgrade QAD EE To a New Release
02/25/10 @ 11:22:52 [mfg] -
02/25/10 @ 11:22:52 [mfg] - The Conversion has finished processing.
02/25/10 @ 11:22:52 [mfg] - Please review log files for any errors or warnings
02/25/10 @ 11:22:52 [mfg] -

Press CLOSE to continue.

< Close >
```

Upgrade Validation 2

Upgrade Validation

Check the log files for errors:

- <QDT install dir>/logs/qdtadmin.log
- <QDT install dir>/logs/qdtadmin001.log
- ...
- <QDT install dir>/logs/qdtadminxxx.log

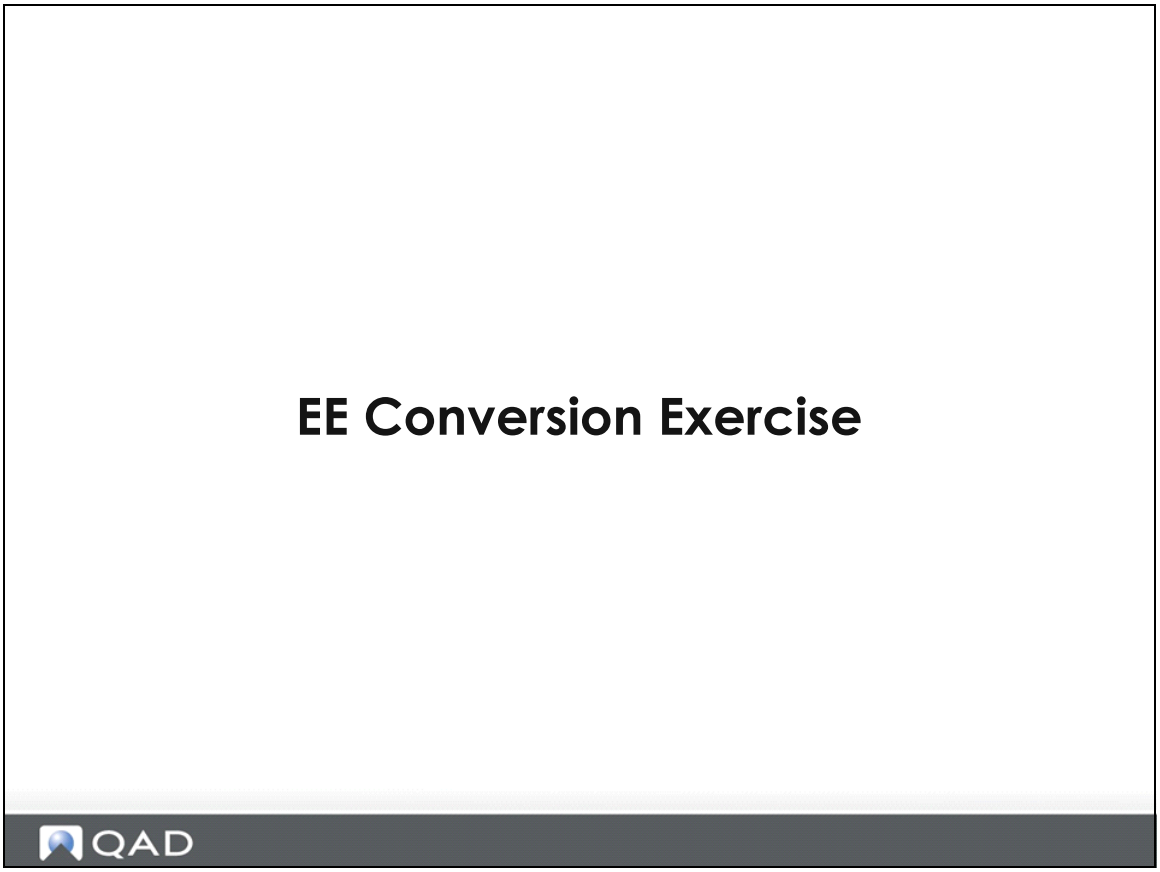
QAD

Questions?

Questions?

QAD

EE Conversion Exercise



Exercise: Upgrade

Exercise: Upgrade

- Access an environment with a previous QAD EE version installed
- Prepare the environment by defining environment variables
- Prepare source databases

  If necessary, convert qaddb and qadadm to the new Progress version
- Back up the environment

QAD

Exercise: Upgrade 2

Exercise: Upgrade

- Install and configure software
  - Migrate QDT to latest Progress version
  - Install the current QDT version
  - Install the current QAD EE version
- Configure upgrade settings
- Start the upgrade
- Validate the upgrade
  - QDT Admin screen
  - Check the log files for errors

QAD

Exercise: Upgrade 3

Exercise: Upgrade

- Install the .NET UI
- Test QAD EE

QAD