

Training Guide

QAD Database Conversion

70-3239-2016EE-Rev1
QAD 2016 Enterprise Edition
August 2016

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Contents

ABOUT THIS COURSE 11

Course Description 12

CONVERSION OVERVIEW 15

Conversion Overview 16
- Agenda 17
- Prerequisite Skills 18
- Prerequisite Training 19

Conversion Path to QAD EE 20
- Conversion Path to QAD Enterprise Edition 21
- Conversion Path Note 22
- Typical Implementation Process 23
- Customer Conversion Execution Benchmark Performance (from eB2) 25

Benchmark Hardware and Software 26
- Benchmark Hardware 27
- Benchmark Software 28
- Conversion Assessments 29

Conversion Process 31
- Summary of Conversion Process 32
- QAD EE Upgrades 33

PRE-CONVERSION 35

Pre-conversion 36

Pre-conversion Overview 37

Overview of Pre-conversion Steps 38

Pre-conversion Activities 39
- Pre-conversion Activities 40
- Table Extension Domain Utilities 43
- Pre-conversion Activities 45
- GL Transaction Consolidation 46
- Pre-conversion Activities 47
- Pre-conversion Activities 48
- Employee Entity Utility 50
- End User Contact Utility 54
- End User Contact Utility 55
- Control Account Utility 58
- GL Account/Project Utility 61
- Orphaned Address Utility 64

Credit Terms Utility 68
Data Preparation Report 72
Country Code Utility 75
Tax ID Utility 78
Conversion Parameters Utility 82
Search & Replace Reports/Utilities 87
GL Account Type Utility 98
Process Pending Transactions 104
Pre-conversion Activities 105
Converted GL Account Definition Report 107
Pre-conversion Integrity Report 110
AP Transaction Integrity 112
AR Transaction Integrity 114
GL Transaction Integrity 116
Pre-Conversion Activities 118
Pre-Conversion Activities 119
Standard Closing Reports 120

Questions? 121

Lab Exercise - Pre-conversion 122
Accessing the Pre-Conversion Software 122
Prerequisite 123
Data Preparation 127
Backup the prepared eB2.1 databases 140
Lab 1 Reference - Compiling Table Extension Domain Utilities 140
Lab 1 Reference – Running the GL Account Type Utility 146

CONVERSION EXECUTION 157

Conversion Execution 158

Conversion Execution Process 159
Back Up the Environment Databases 160
Preserve Custom System Data 161
Prepare the Source Databases 162
Install QAD Enterprise Edition 163
Conversion Prerequisites 164
Conversion Execution Process 165
Configure the Conversion (mandatory) 166
Configure the Conversion (optional) 168
Executing the Conversion 172
Monitor the Conversion 174
Validate the Conversion 175
Validate the Conversion 176
Execute YAB Update 177
Enter Licence Codes 178
Rerun the Conversion 179
Snapshots 181
Troubleshooting 186

Lab Exercise - Conversion Execution Lab 196
Restore the Source Databases 196
Convert the Source Databases from OE10 to OE11 197
Install Enterprise Edition 198
Conversion Prerequisites 198
Install the Conversion Package 199
Configure the Conversion 200
Execute the Conversion 202
Review the Log Files 204
Conversion Execution Benchmark Performance 205
Re-Running a Conversion 206
Execute the Conversion with Snapshots 207
Execute YAB Update 211
Enter License Codes 211
Back up the QAD EE DB's 213

POST-CONVERSION 215

Post-conversion 216

Post-conversion Introduction 217

Overview of Post-conversion Steps 218
Fixed Assets Migration Utility 221
Sales Order Balance Update 225
Document Credit Terms Update 227
Update Contract Revenue Account 229

Post-conversion Data Validations 230
System Consistency Check 232
Financials Consistency Check 236
Post-conversion – Integrity Check 240
Post-conversion Integrity – Menu 242
Post-conversion – GL Integrity (Sum) 243
Post-conversion – GL Integrity (Detail) 244
Post-conversion – AR Integrity 245
Post-conversion – AP Integrity 246
Operational Account Structure Validation 248
Reconciliation Reports 253

Post-conversion Reports 257

Suggested Process Flow & Static Data Validation 258

Post-conversion Set Up – Mandatory Data 262
Daybooks 266
Security 268
Tax Periods 270
Reporting Periods 272
Profiles 274
Configure Daemons 276

Post-conversion Set Up – Non-mandatory Data 277
Accounting Layers 278
Cash Groups 279
Report Structures 280
Taxes 282
Supplementary Analysis Fields 285
Customer Credit Checking 286
Customer/Supplier Payment Statuses 288
Customer/Supplier Control Accounts 289
Additional Profiles 290

Questions? 291

Lab Exercise – Post Conversion 292
Verify the Environment Status 292
Run the Post-Conversion Utilities 293
Data Validation 297
Processing Time Table 301

UPGRADING QAD ENTERPRISE EDITION 302

Upgrading Enterprise Edition 303

Upgrading QAD Enterprise Edition 304

Overview of Upgrade Steps 305
Back Up and Prepare Source Databases 306
Install QAD Enterprise Edition 307
Restore the Source EE Databases 308
Configure the Upgrade (Optional) 309
Execute the Upgrade 311
Monitor the Upgrade 313
Validate the Upgrade 314
Execute YAB Update 316
Rerun an EE Upgrade 317
Additional Considerations 318

Questions? 320

Lab Exercise - Upgrade Execution Lab 322
Back Up the Source Databases 323
Install QAD Enterprise Edition 324
Restore the Source EE Databases 324
Configure the Upgrade (Optional) 328
Execute the Upgrade 328
Review the Log Files 329
Rerun the Upgrade (optional) 330
Execute YAB Update 332

Change Summary

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

Date/Version	Description	Reference
August 2016/v2016EE Rev 1	Major revisions throughout.	--
	Revised training guide to include `yab` commands	--
April 2016/v2016 EE	Rebranded for QAD 2016 EE, added link to Preface	--
October 2015/v2015 EE-Rev 1	Numerous editorial change	--
April 2015/v2015 EE	Rebranded for QAD 2015 EE	--
	Updated text and GUI to reflect that the items to update are deselected by default	--
April 2014/v2014 EE	Rebranded for QAD 2014 EE	--
	Numerous editorial changes	--
	Added Update Contract Revenue Account	--
	Revised and updated Upgrading QAD Enterprise Edition	--
October 2013/v2013.1 EE	Rebranded for QAD 2013.1 EE	--
	Numerous editorial changes	--
	Added slide comments to pages	--
April 2013/v2013 EE	Rebranded for QAD 2013 EE	--
	Numerous editorial changes	--
October 2012/v2012.1 EE	Updated page	--
April 2012/v2012 EE	Updated screen shot	--
	Added new page to document new screen	--

About This Course

Course Description

This course is designed to build your expertise in QAD Enterprise Edition database conversion and upgrades. 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 users involved with the conversion of QAD Enterprise Edition products.

Prerequisites

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

Virtual Environment Information

Use the hands-on exercises in this book with the QAD Enterprise Edition training environment specified by your instructor.

Additional Resources

If you encounter questions on QAD software that are not addressed in this book, several resources are available. The QAD corporate Web site provides product and company overviews. From the main site, you can access the QAD Learning or Support site and the QAD Document Library.

Access to some portions of these sites depends on having a registered account.

http://www.qad.com/

QAD Learning Center

To view available training courses, locations, and materials, use the QAD Learning Center. Choose Education under the Services tab to access this resource. In the Learning Center, you can reserve a learning environment if you want to perform self-study and follow a training guide on your own.

QAD Document Library

To access release notes, user guides, training guides, and installation and conversion guides by product and release, visit the QAD Document Library. Choose Document Library under the Support tab. In the QAD Document Library, you can view HTML pages online, print specific pages, or download a PDF of an entire book.

To find a resource, you can use the navigation tree on the left or use a powerful cross-document search, which finds all documents with your search terms and lets you refine the search by book type, product suite or module, and date published.

QAD Support

Support also offers an array of tools depending on your company's maintenance agreement with QAD. These include the Knowledgebase and QAD Forums, where you can post questions and search for topics of interest. To access these, choose Visit Online Support Center under the Support tab.

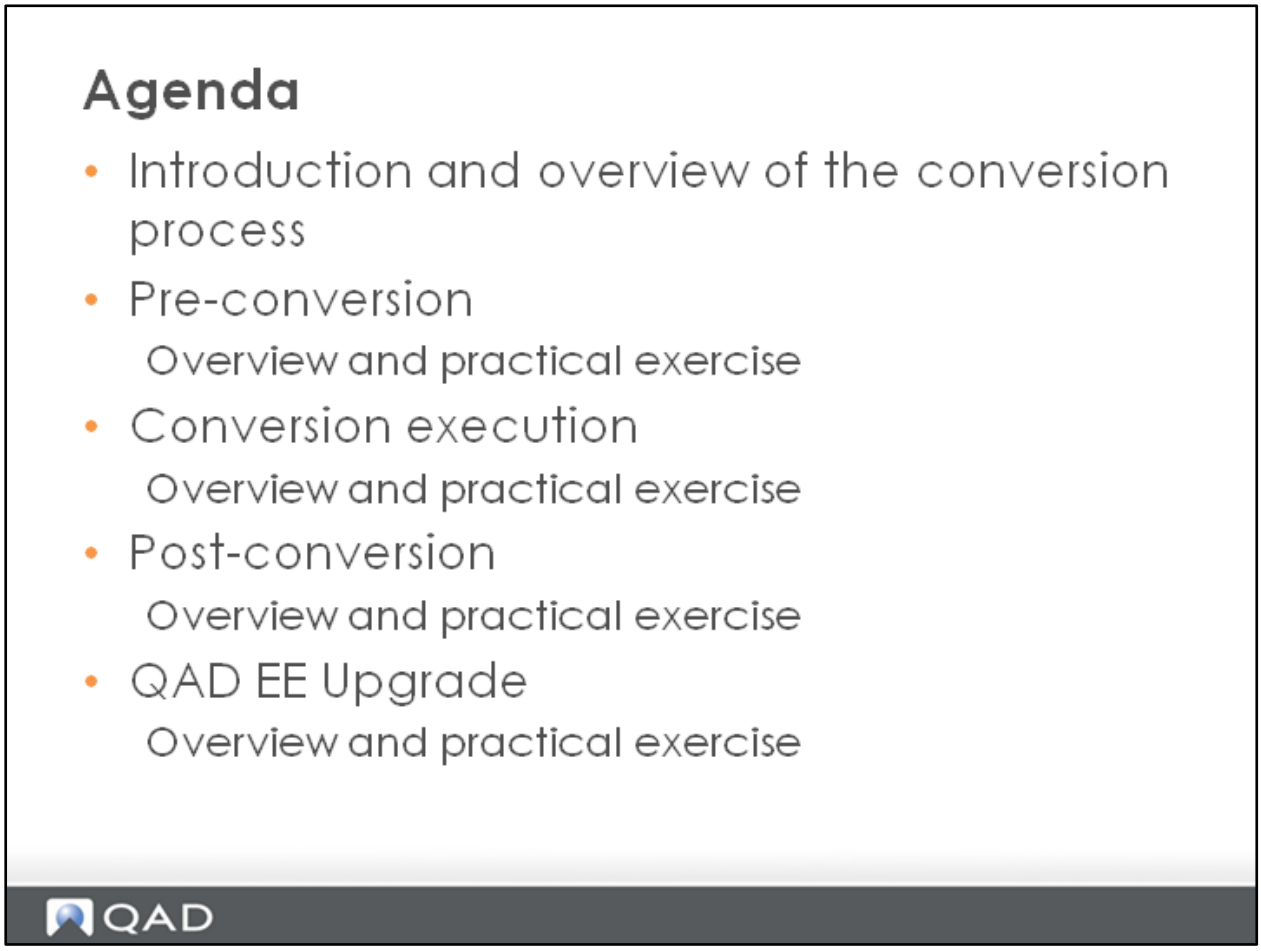
CHAPTER 1

Conversion Overview

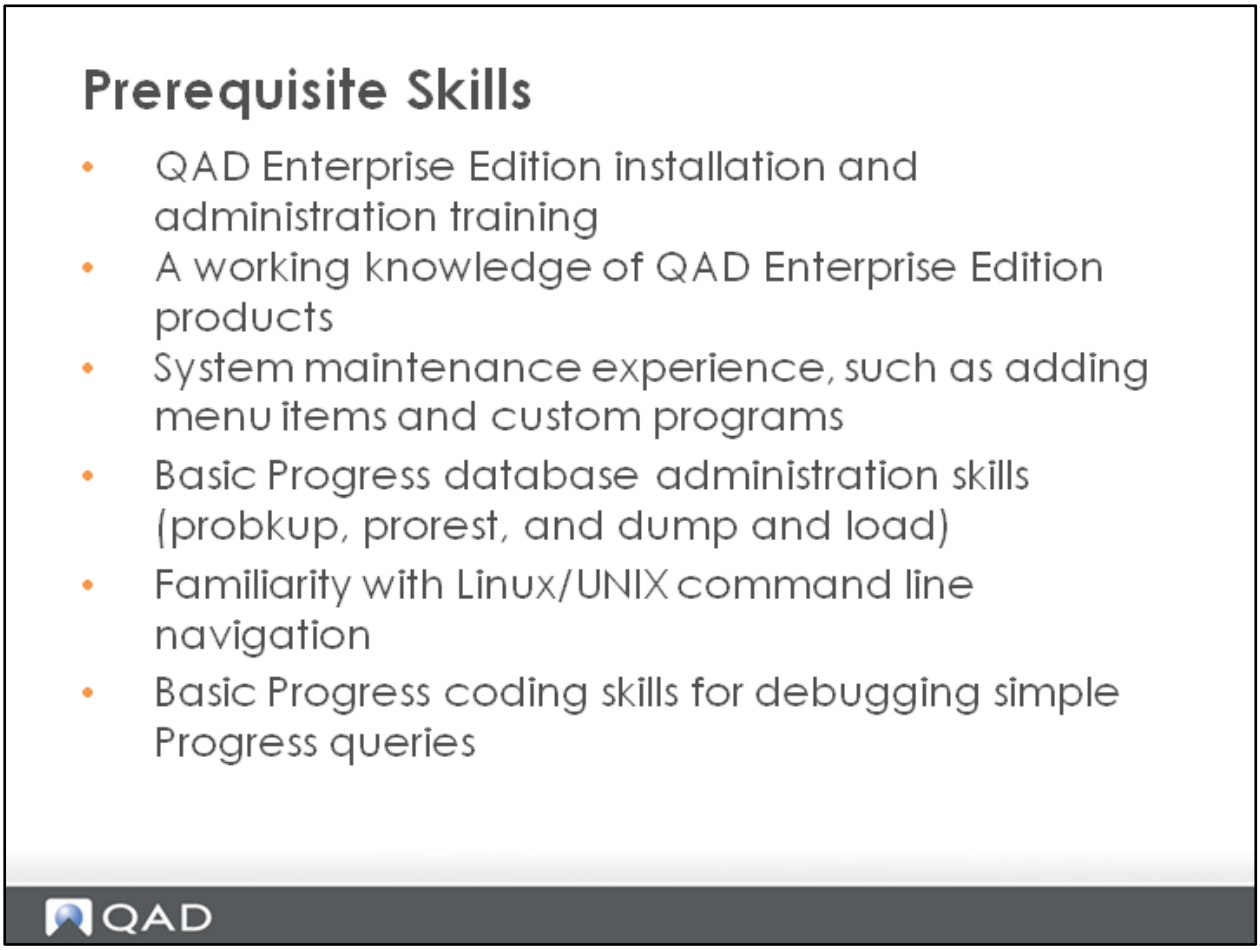
Conversion Overview



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
QAD

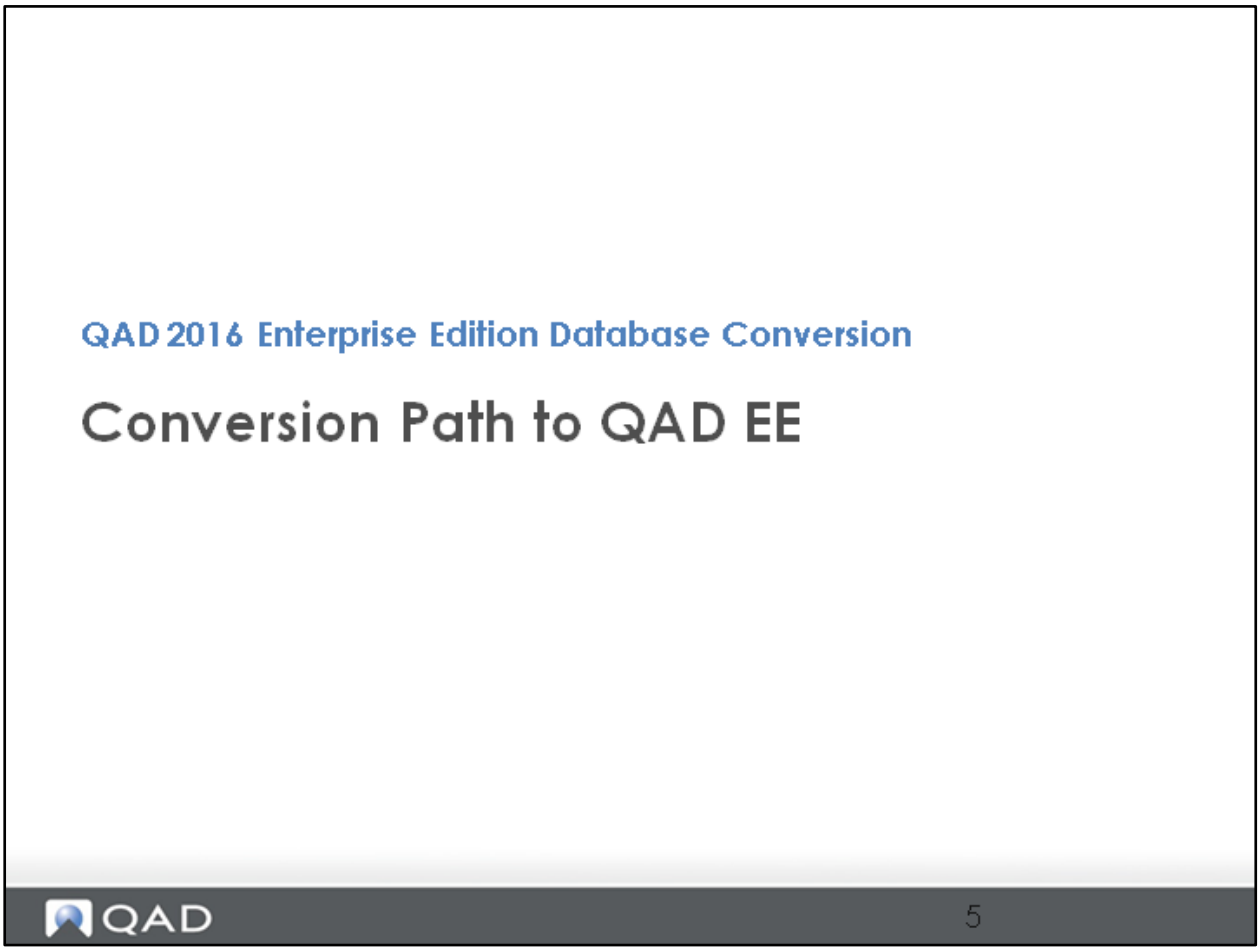
Prerequisite Skills



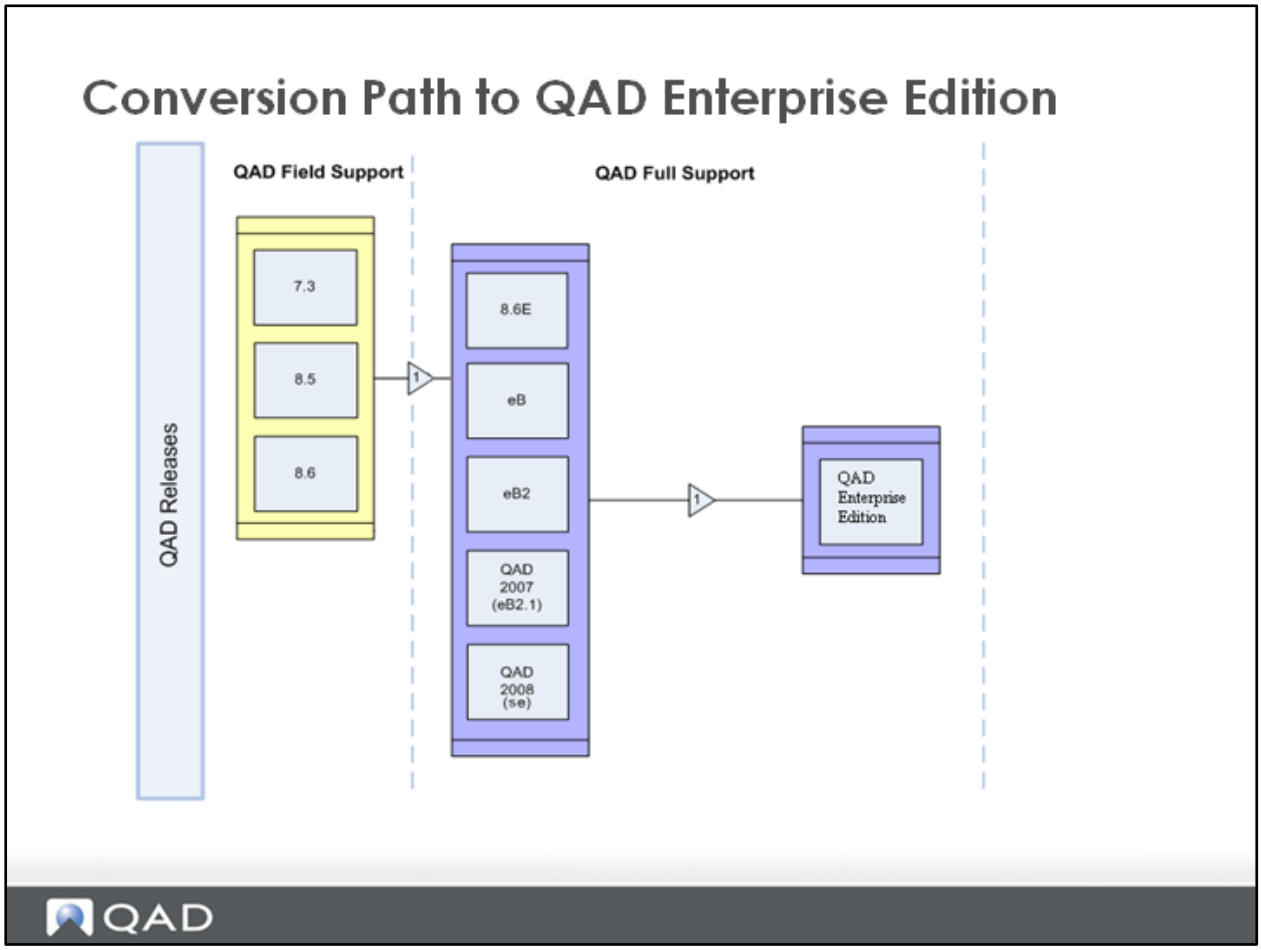
Prerequisite Training



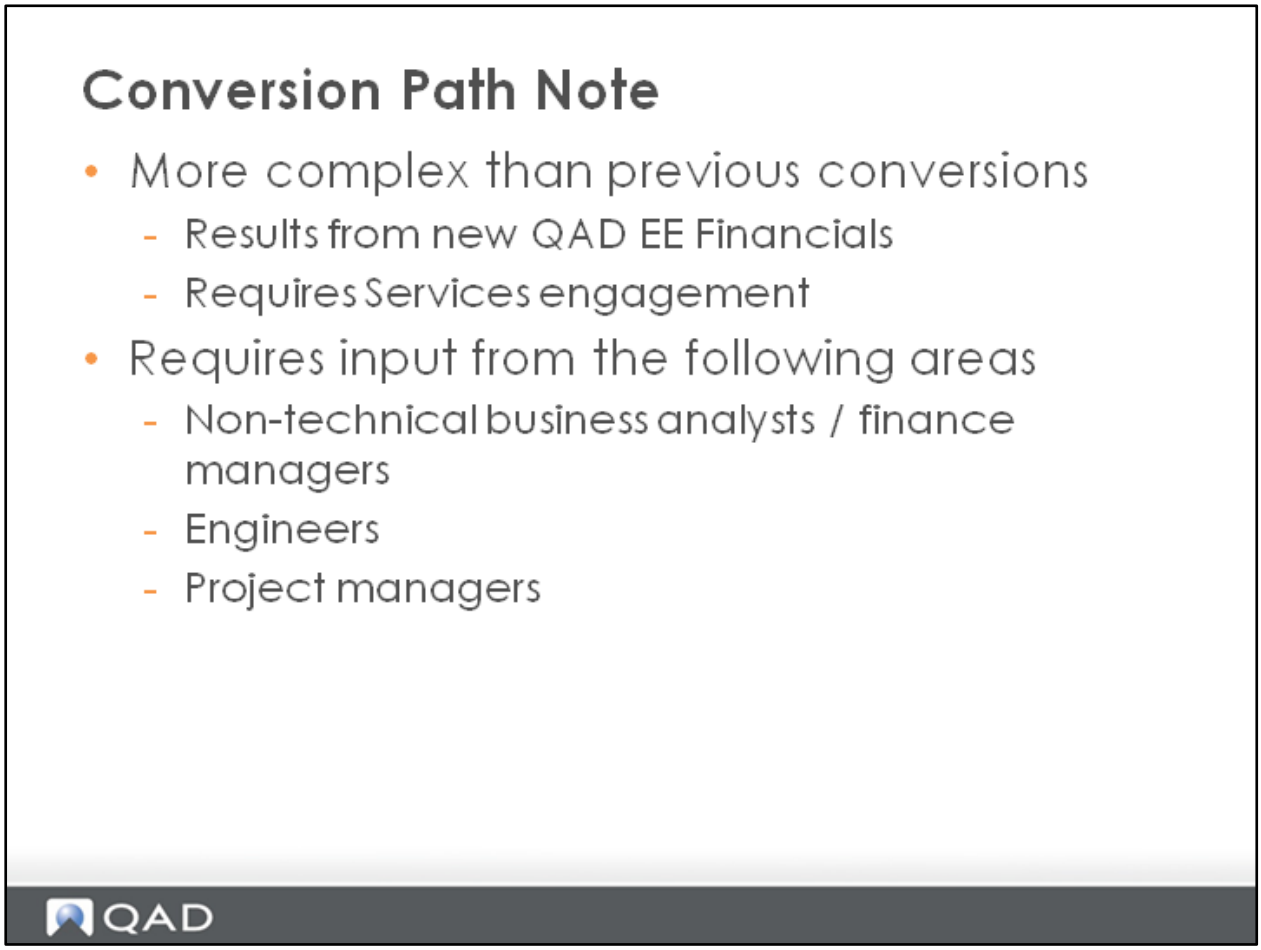
Conversion Path to QAD EE



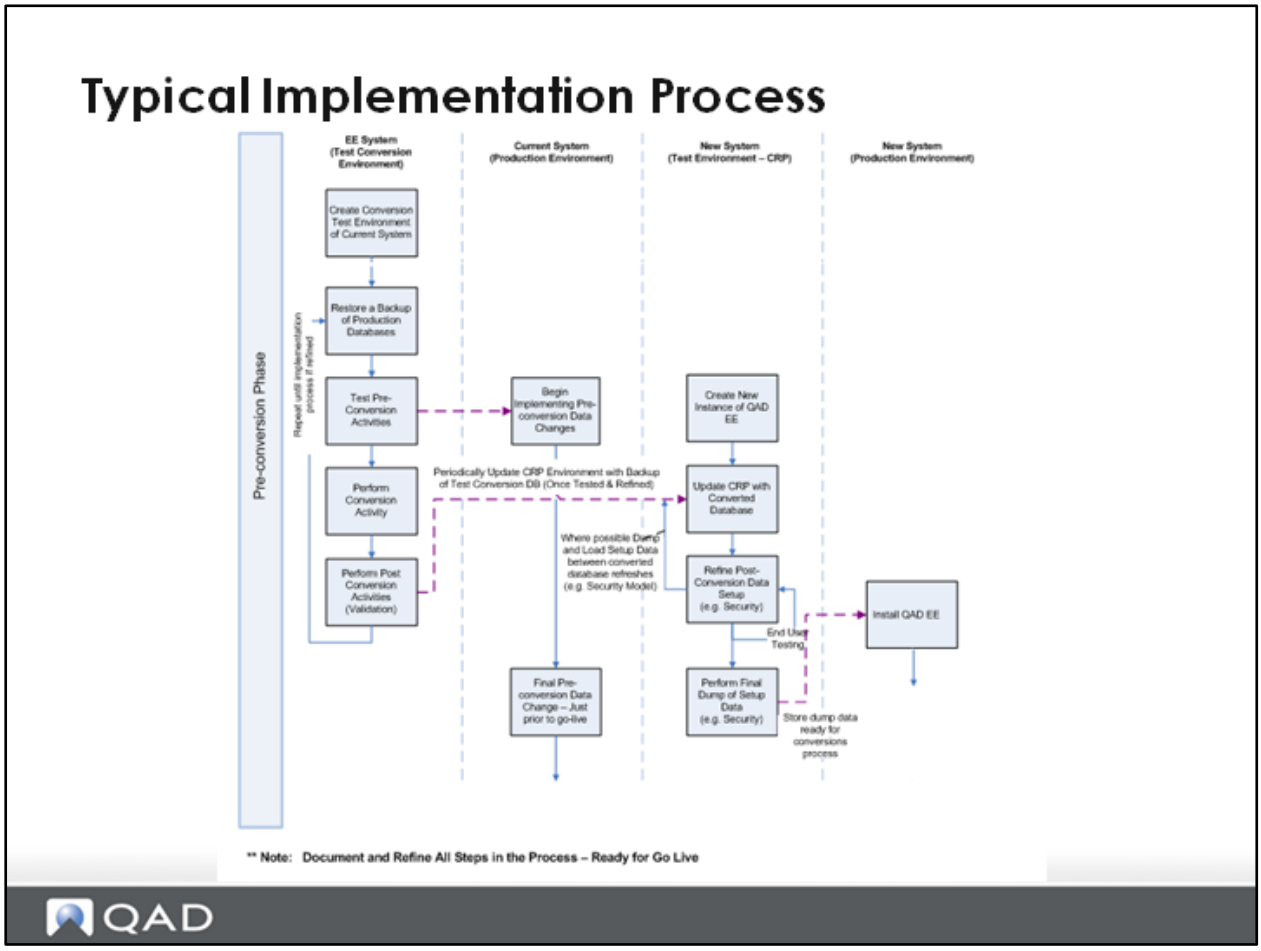
Conversion Path to QAD Enterprise Edition



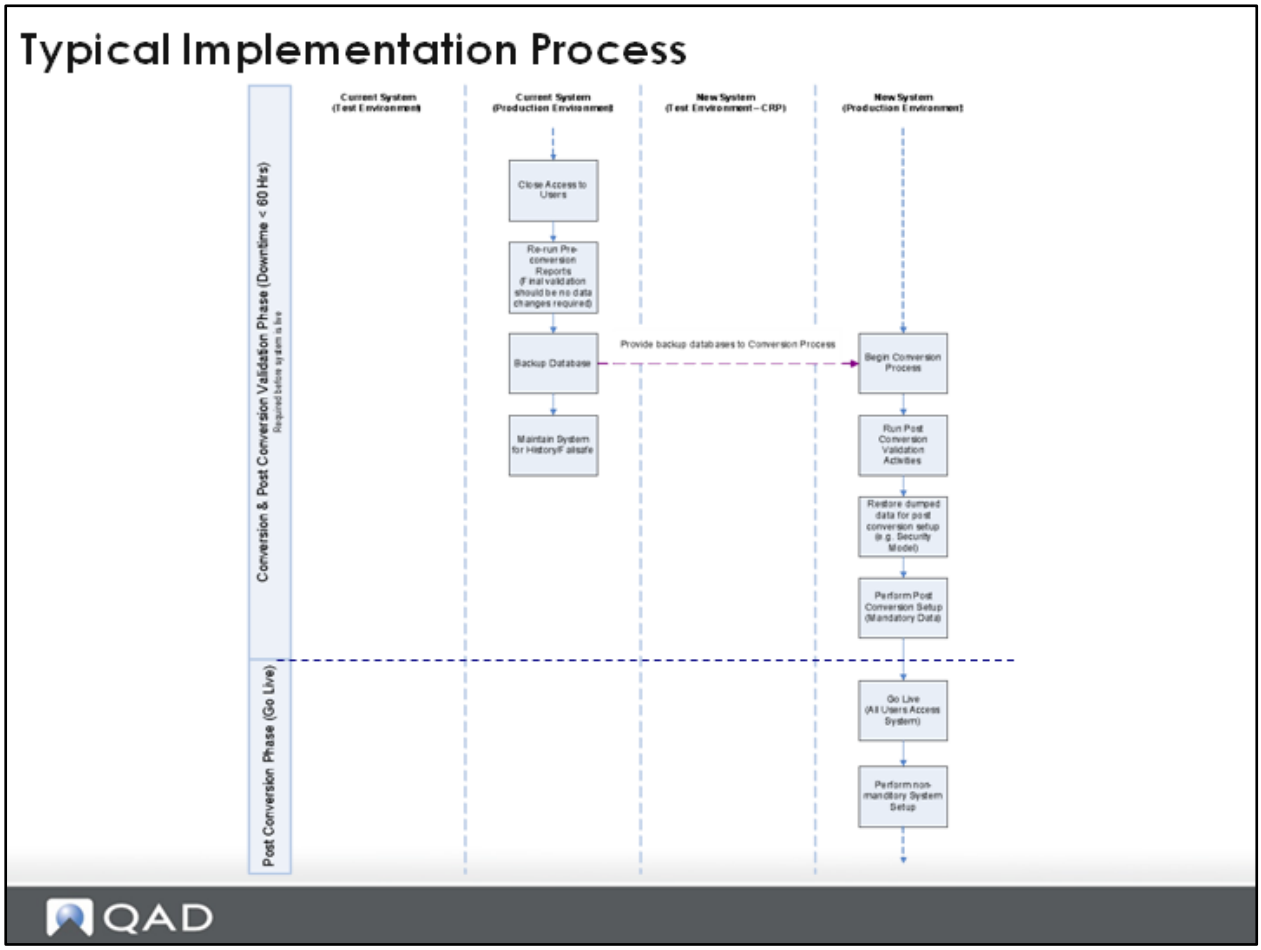
Conversion Path Note



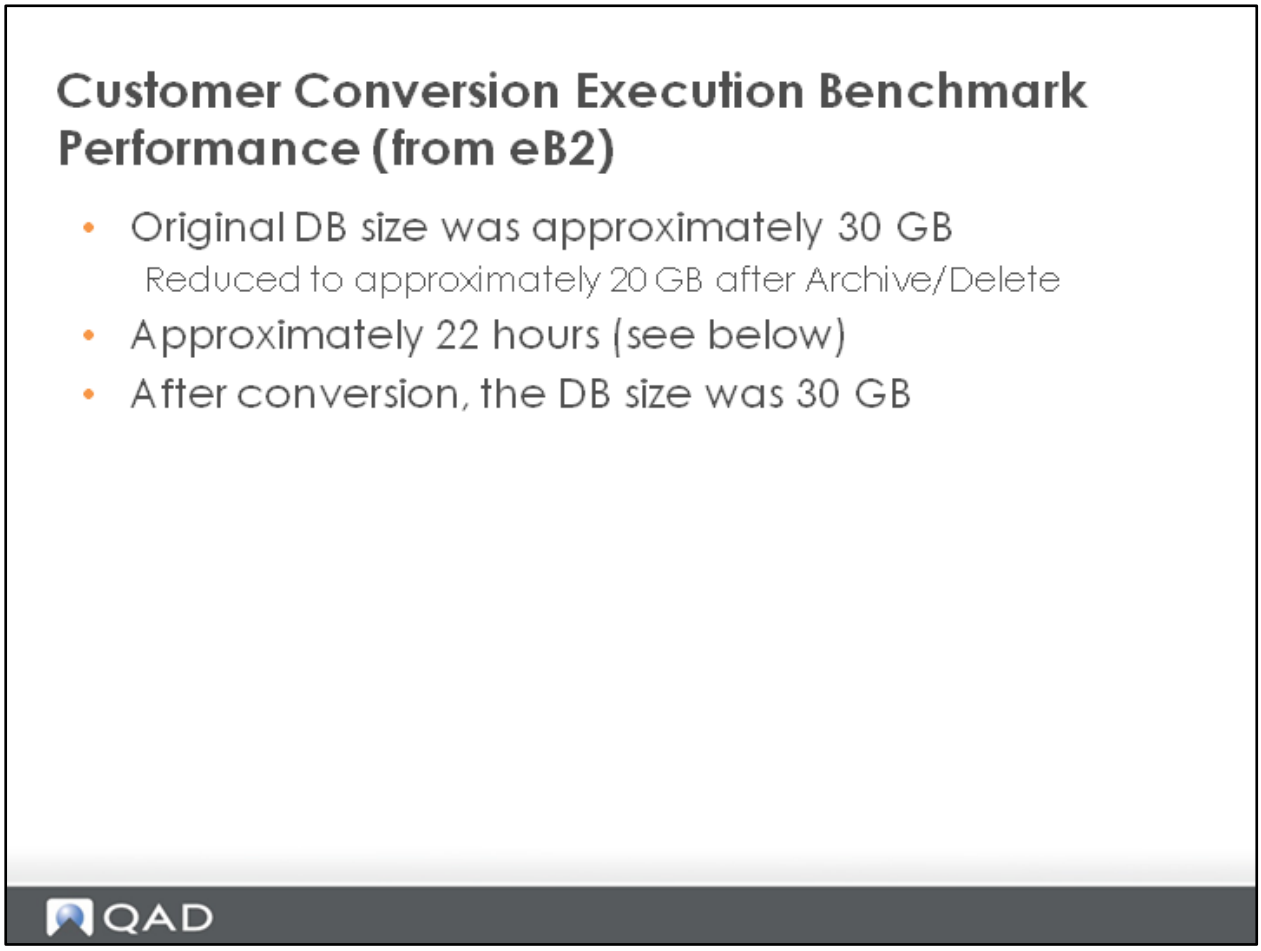
Typical Implementation Process



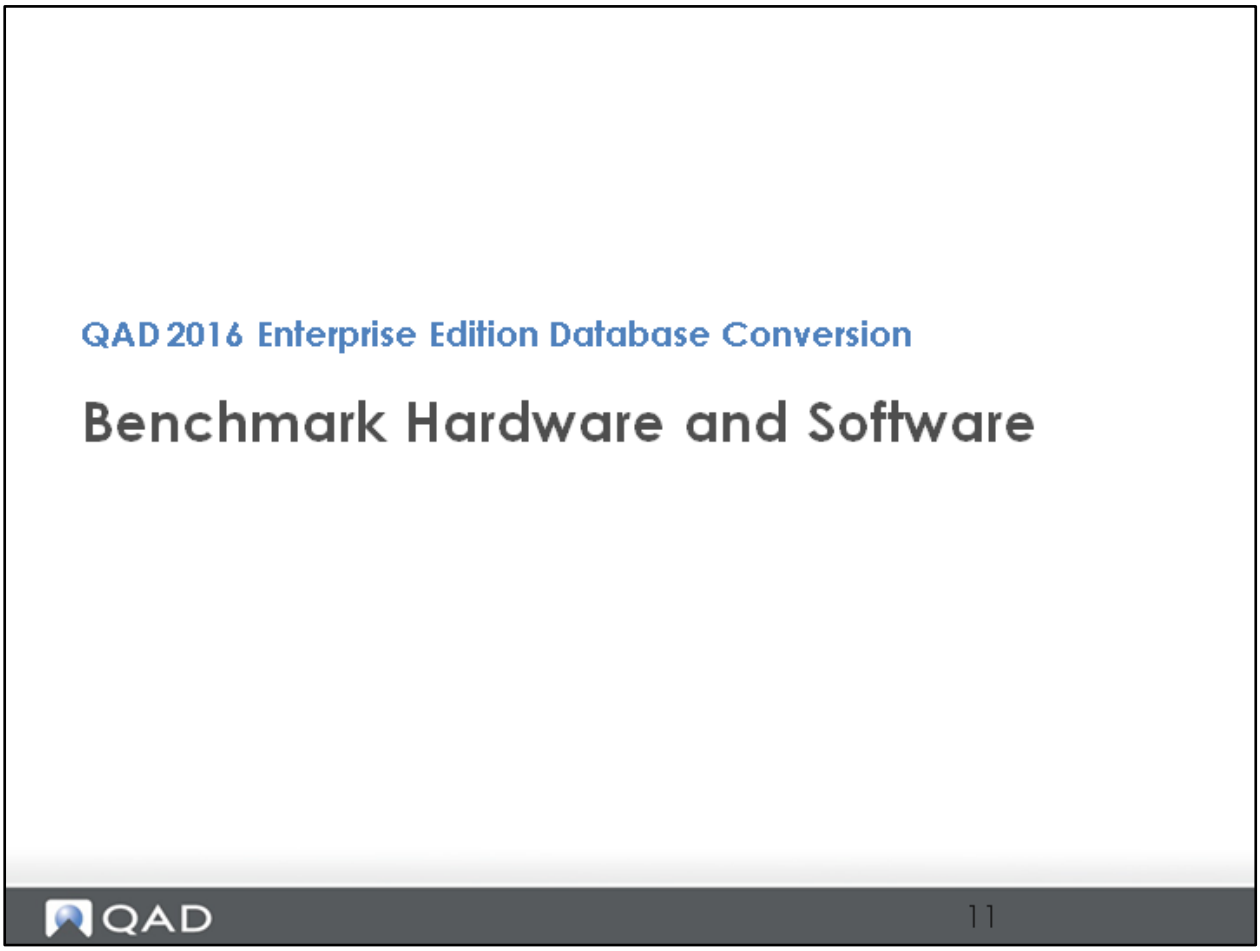
Typical Implementation Process



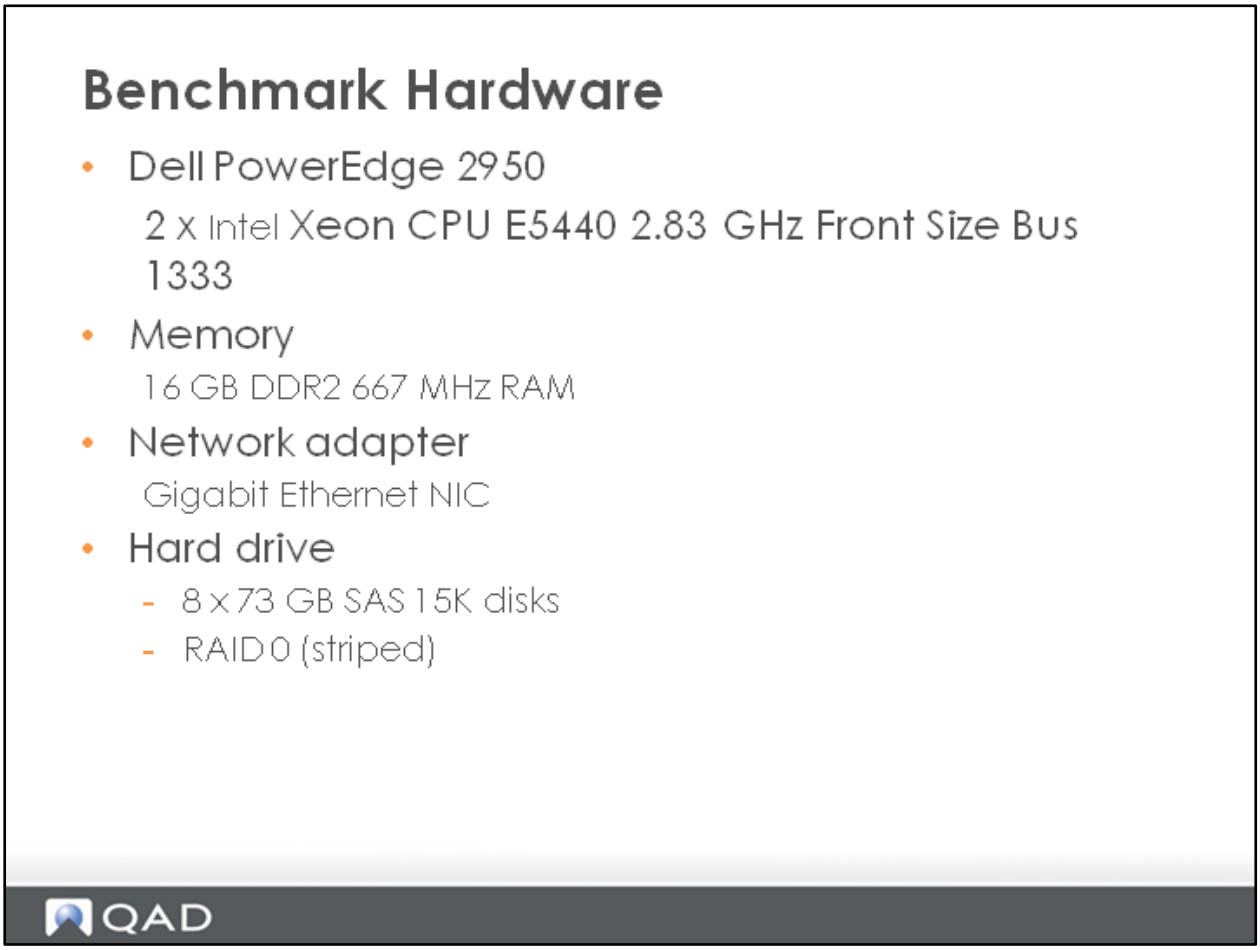
Customer Conversion Execution Benchmark Performance (from eB2)



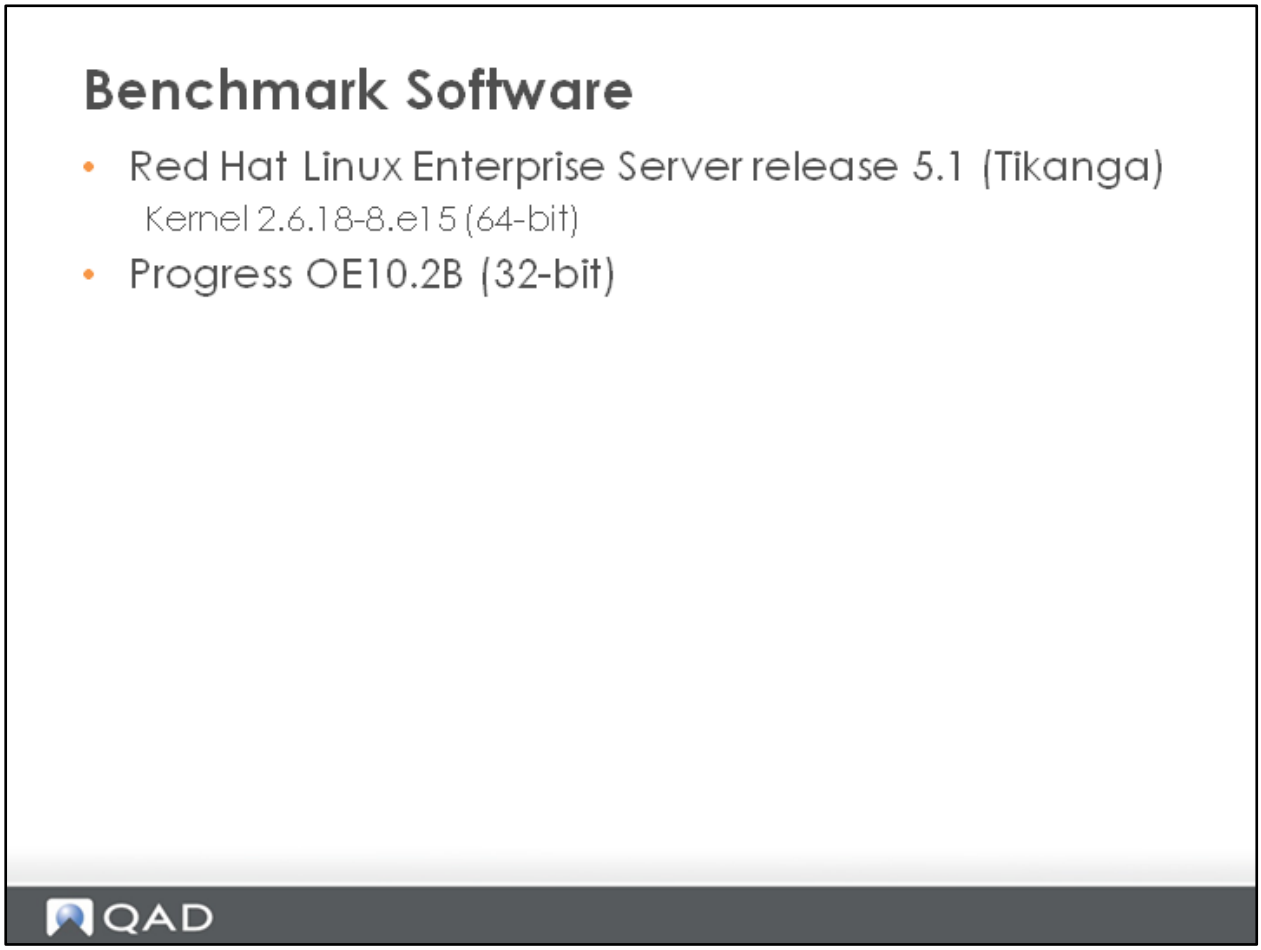
Benchmark Hardware and Software



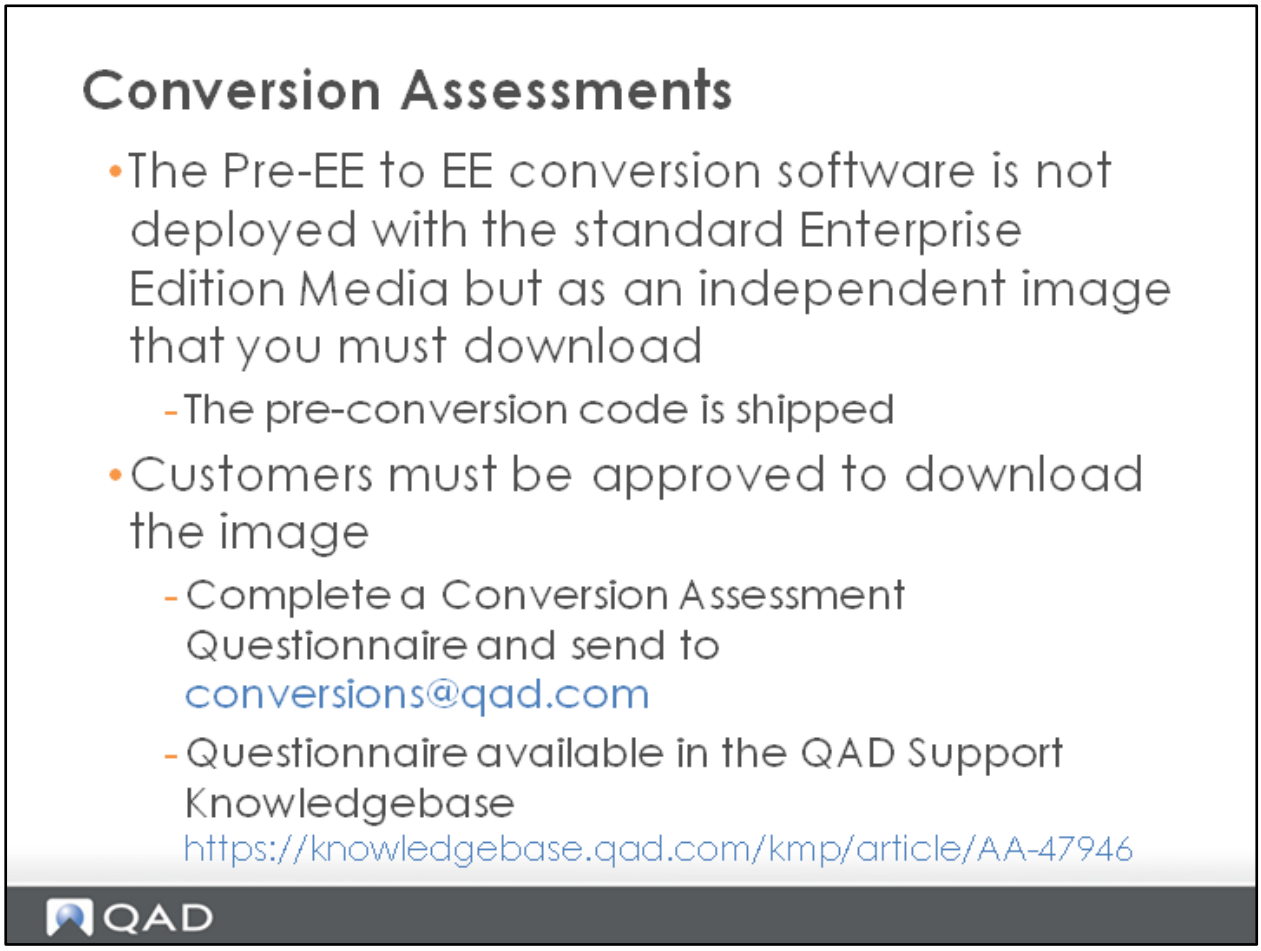
Benchmark Hardware



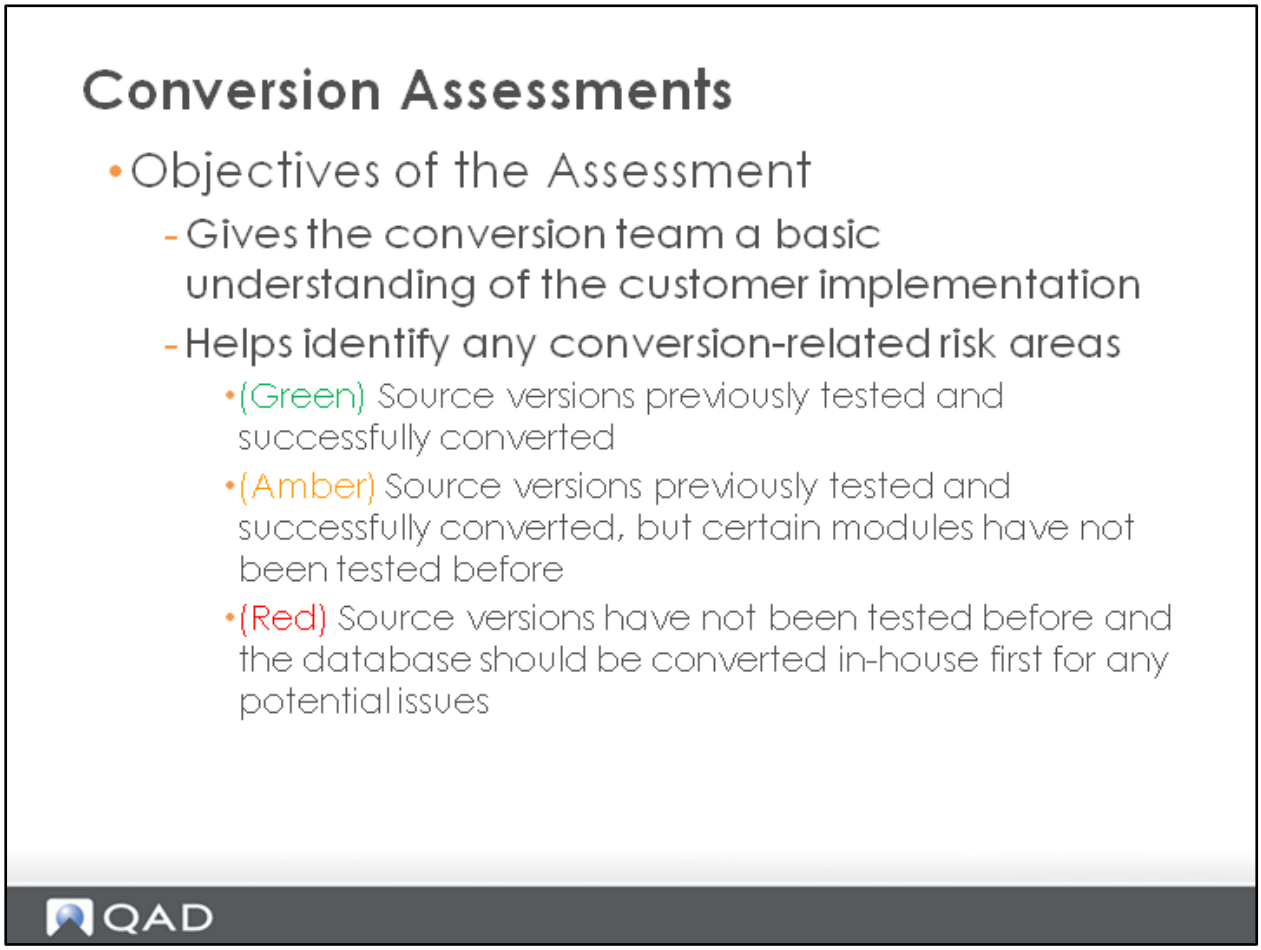
Benchmark Software



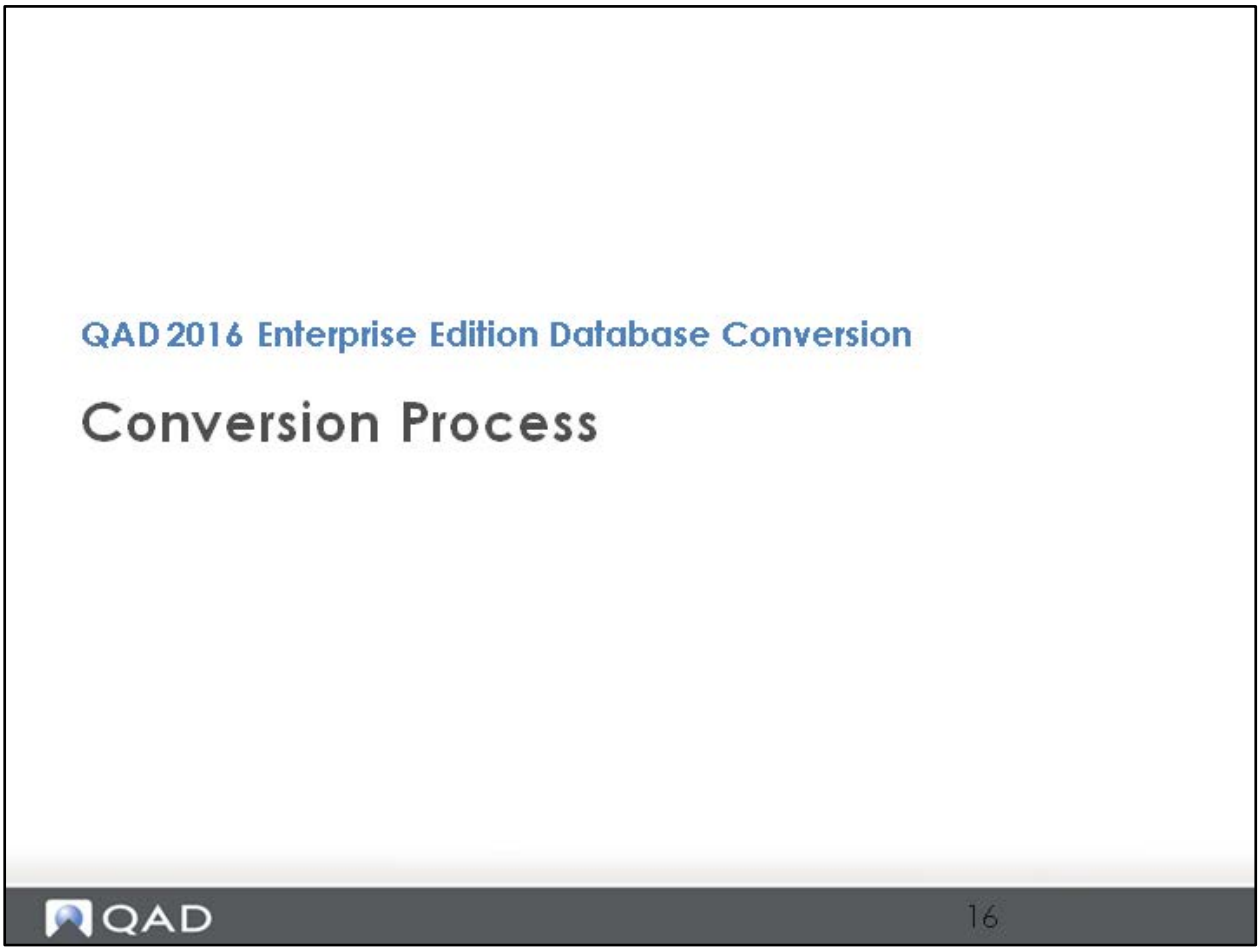
Conversion Assessments



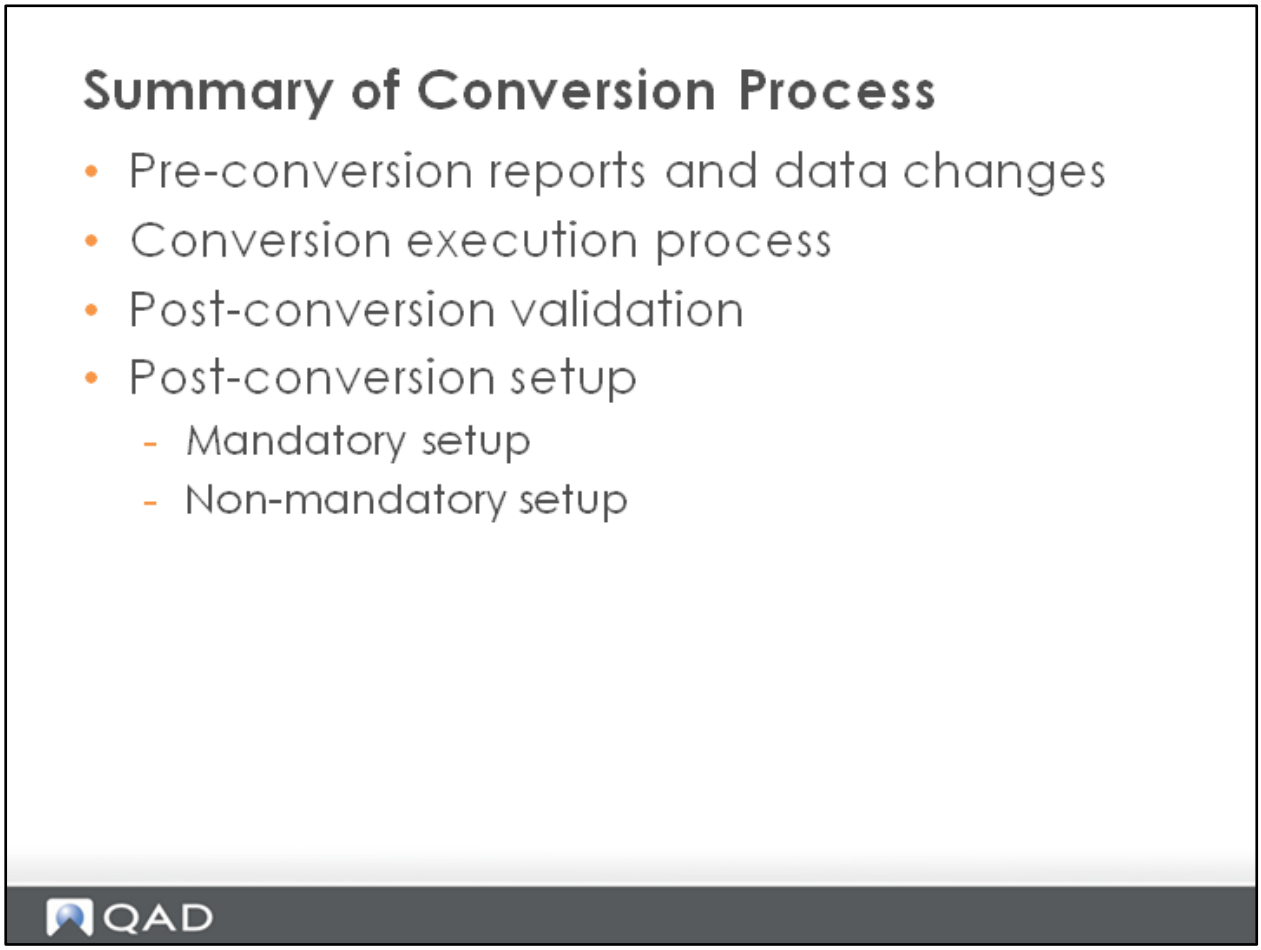
Conversion Assessments



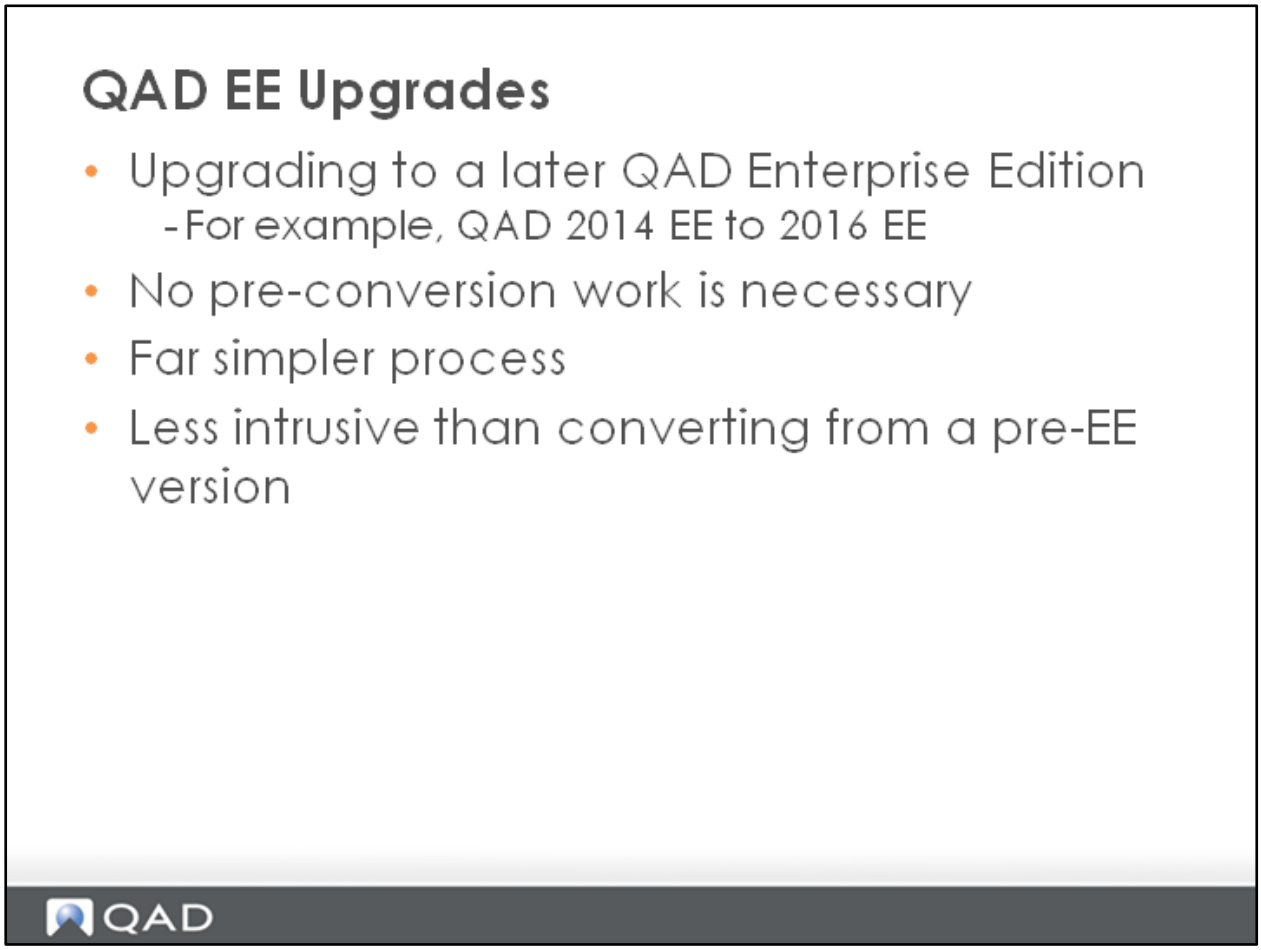
Conversion Process



Summary of Conversion Process



QAD EE Upgrades



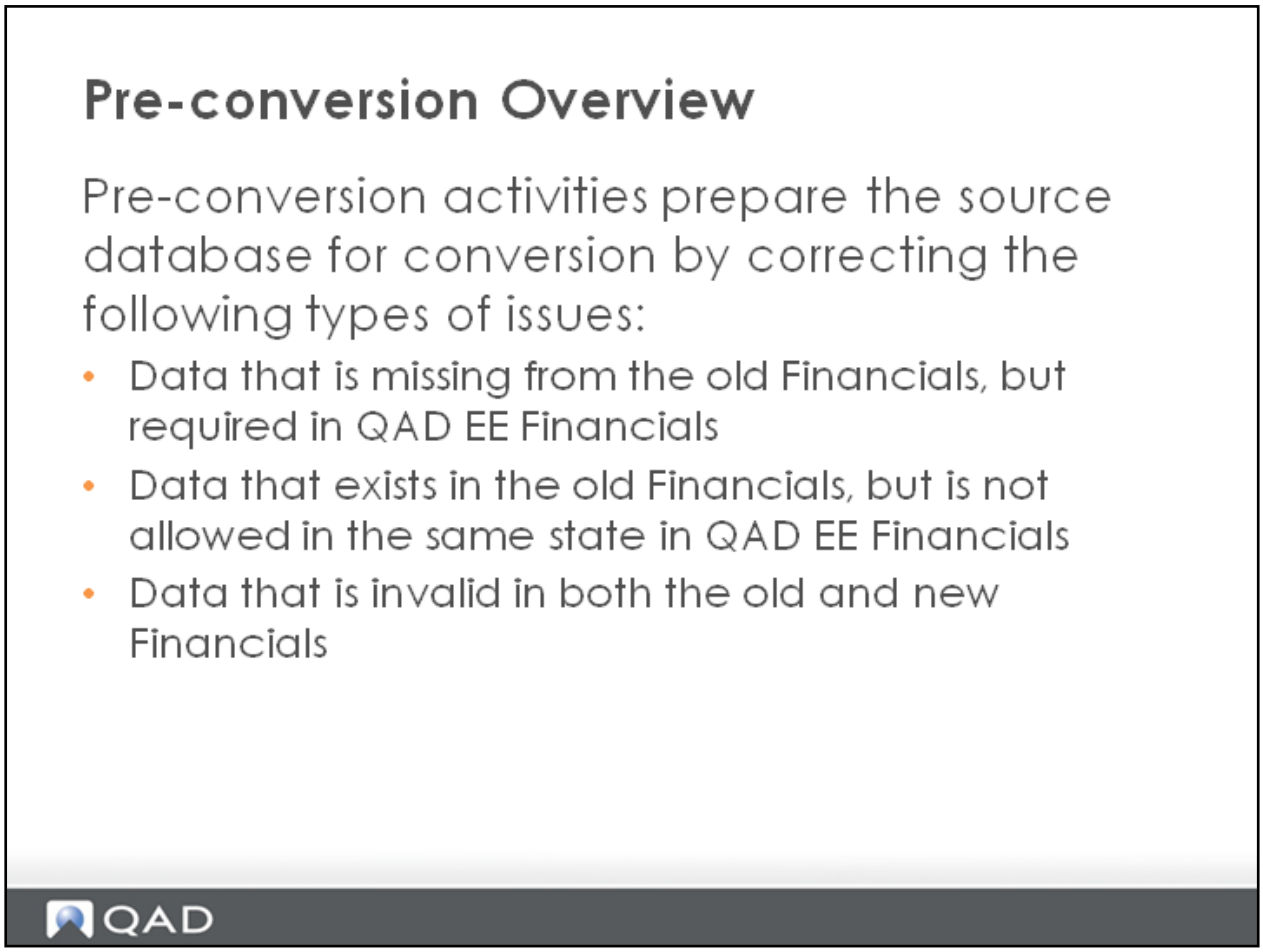
CHAPTER 2

Pre-Conversion

Pre-conversion

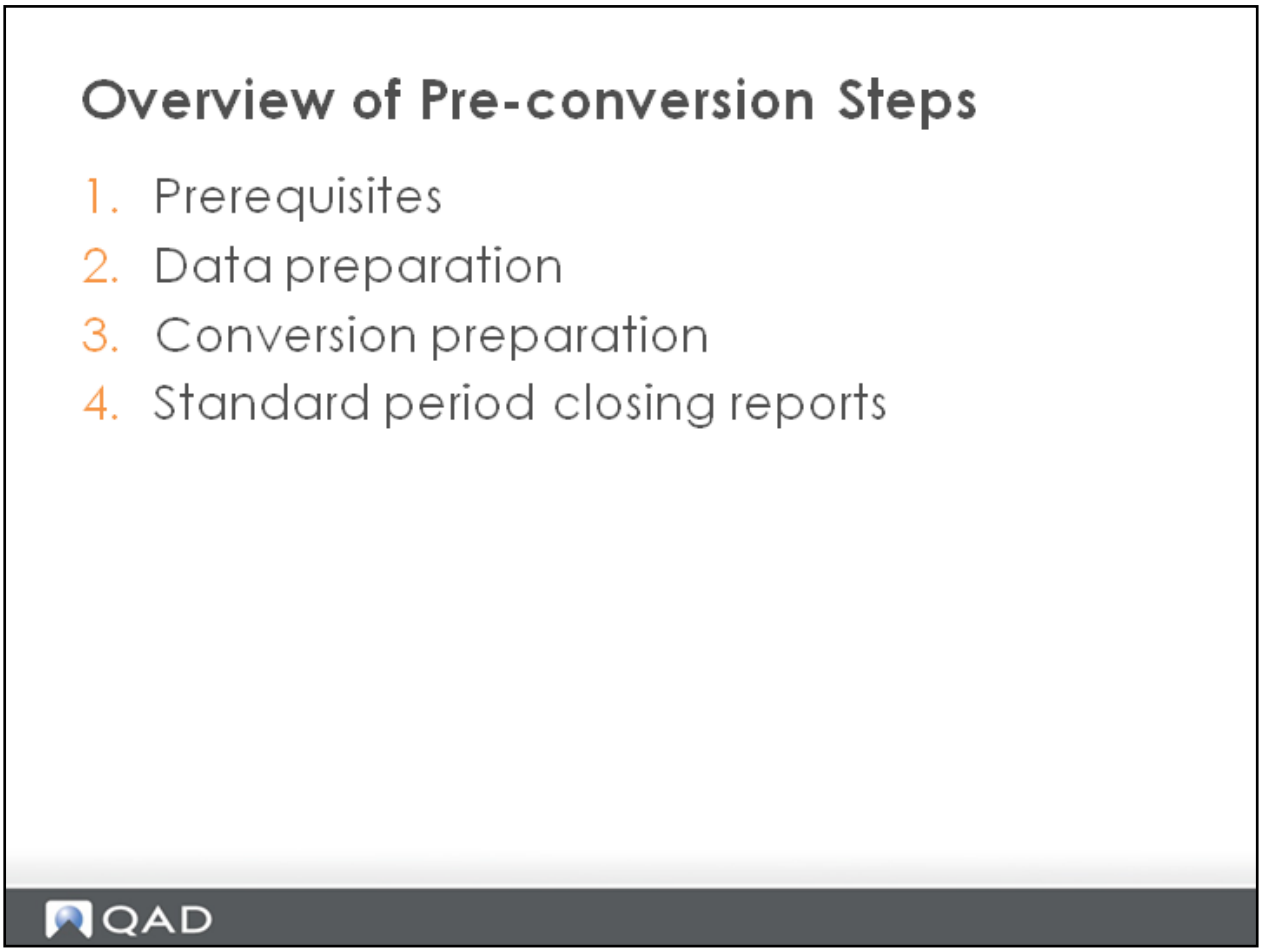


Pre-conversion Overview

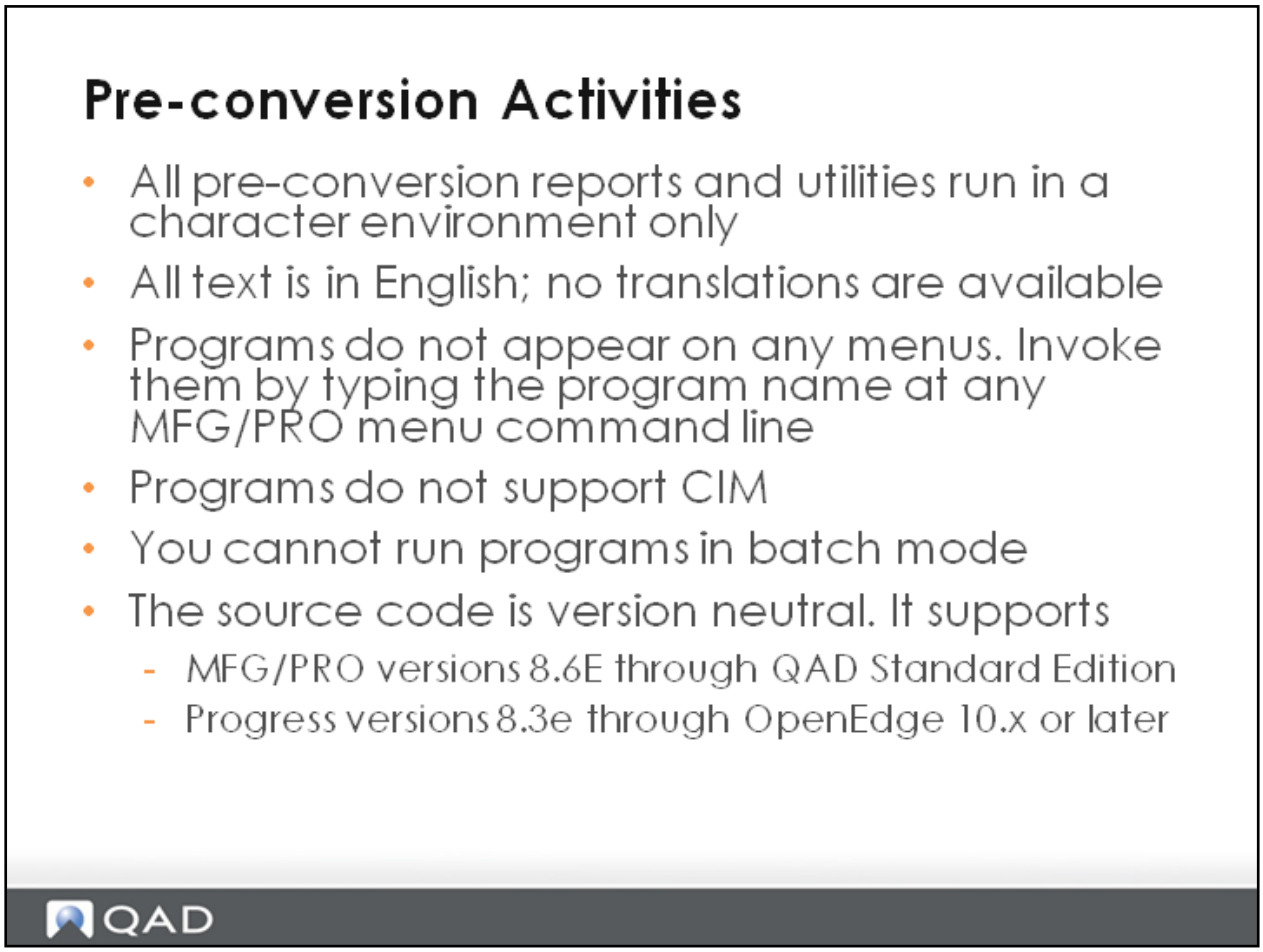


The older versions of MFG/PRO were a lot more flexible than QAD EE. There are more restrictions in the new Financials in QAD EE. As a result, you need to do many changes and corrections before converting your database to QAD EE.

Overview of Pre-conversion Steps

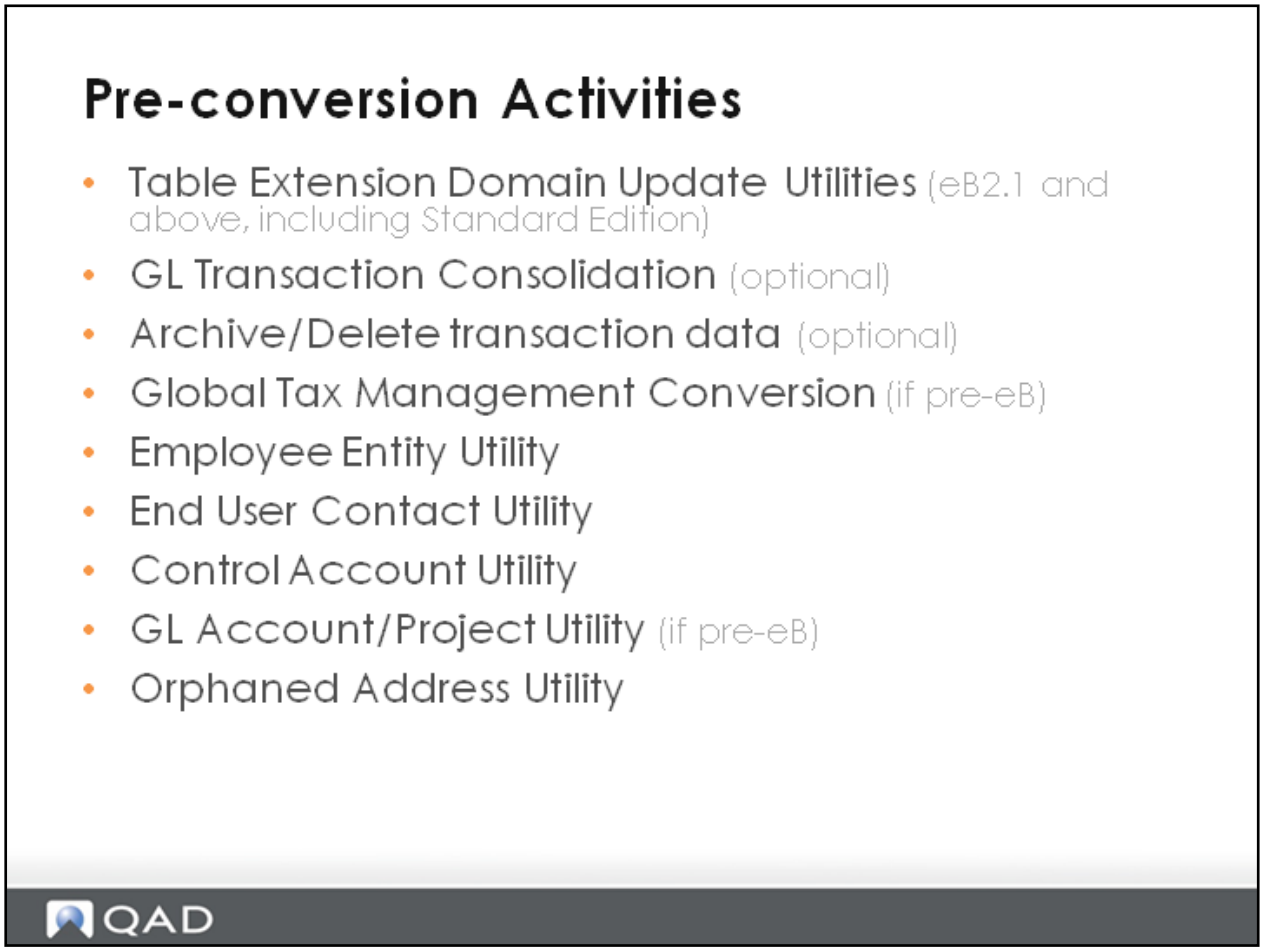


Pre-conversion Activities

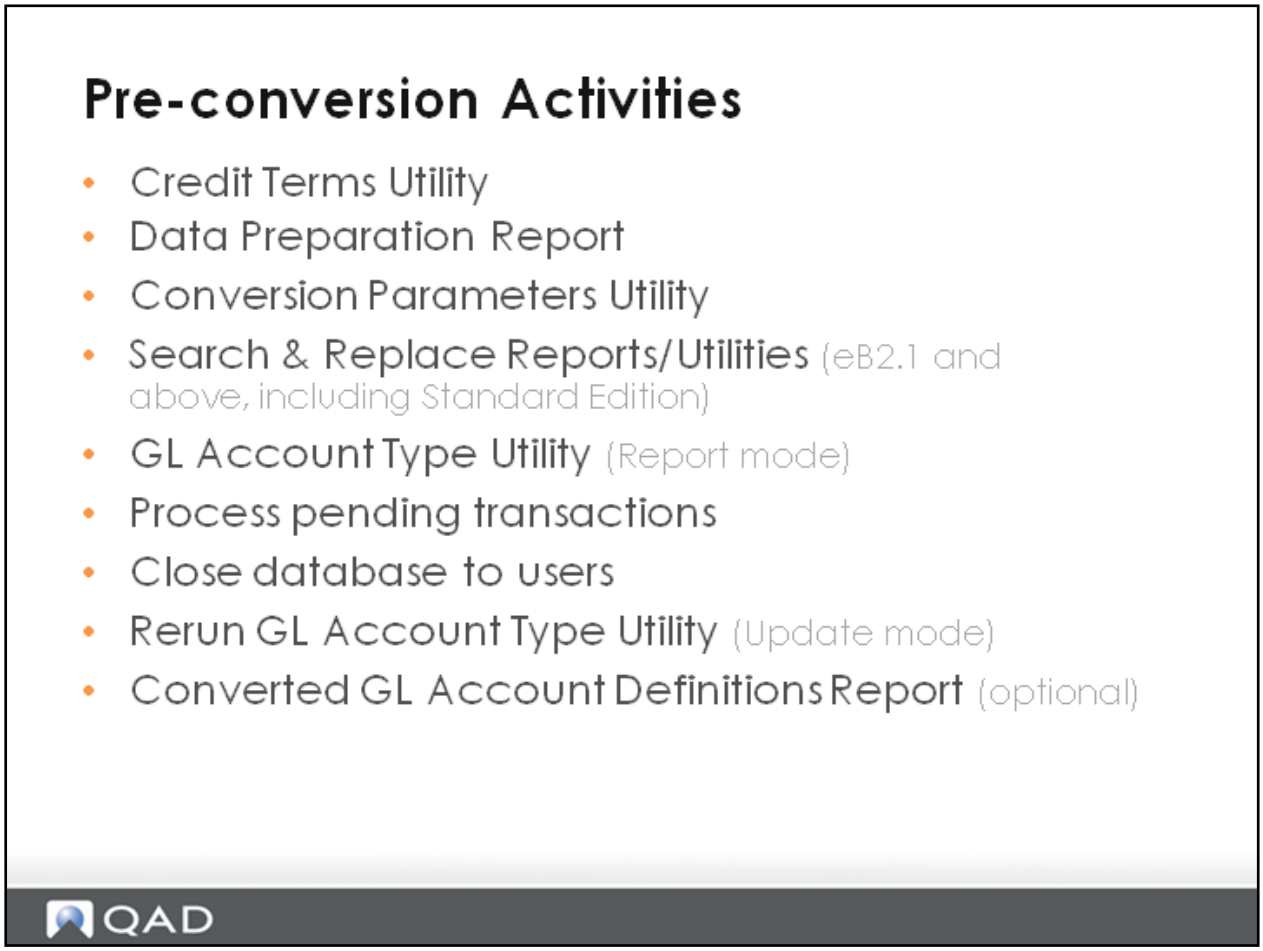


Because we support all versions from MFG/PRO 8.6E to QAD SE, as well as Progress version 8.3e to OpenEdge 10.2B, the code was written at the lowest common level to support these MFG/PRO and Progress versions.

Pre-conversion Activities



Pre-conversion Activities



Pre-conversion Activities

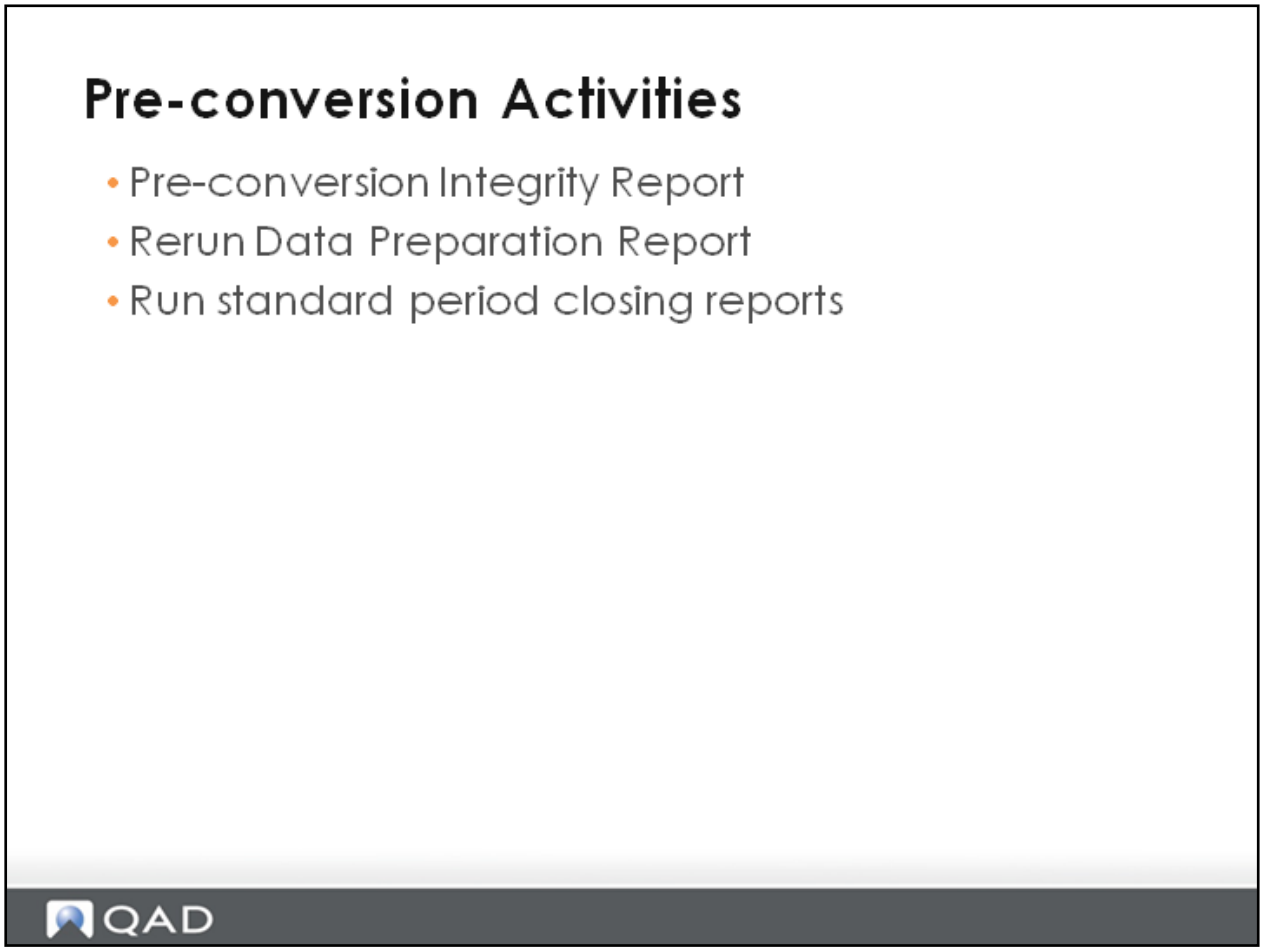
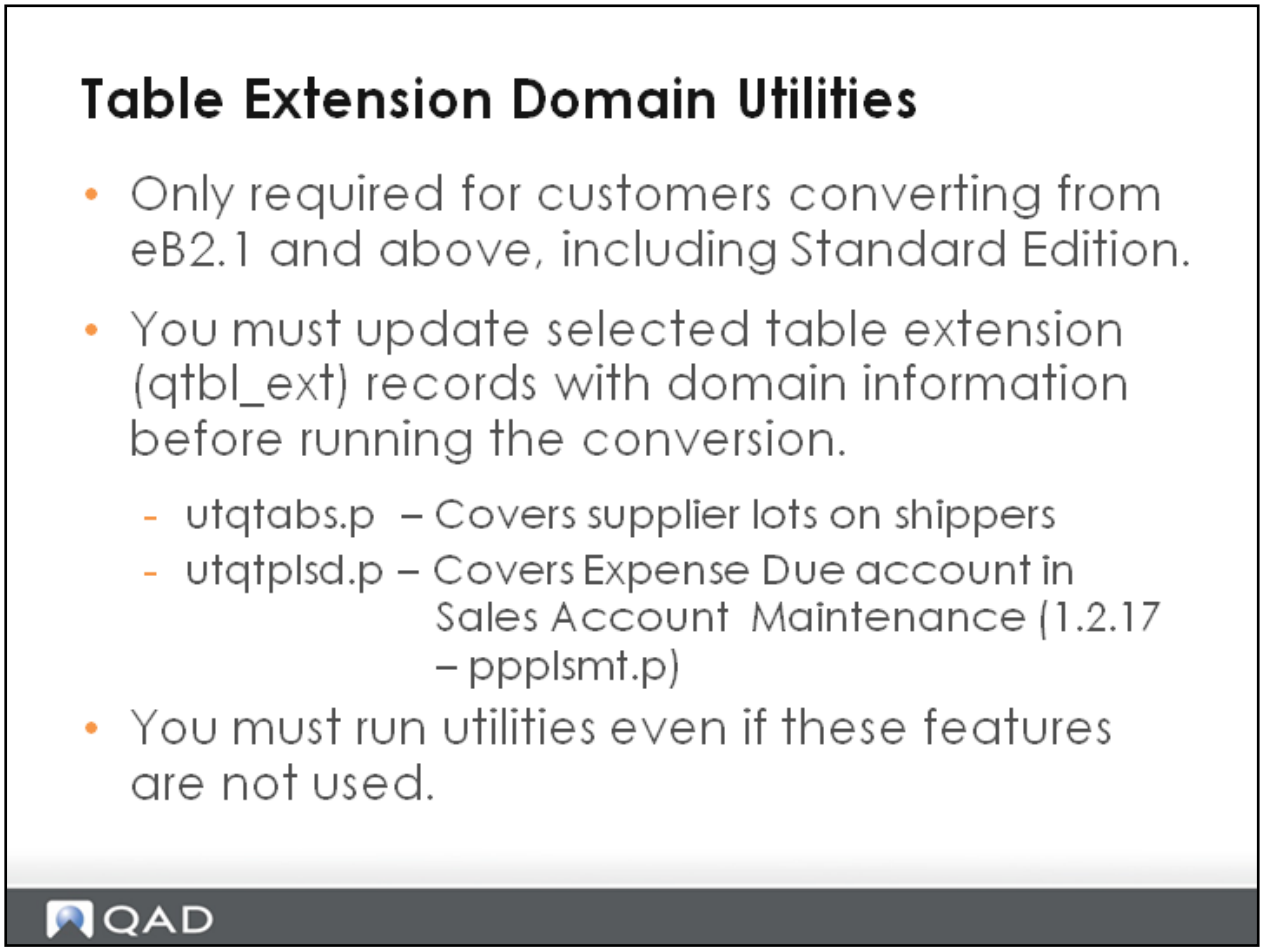


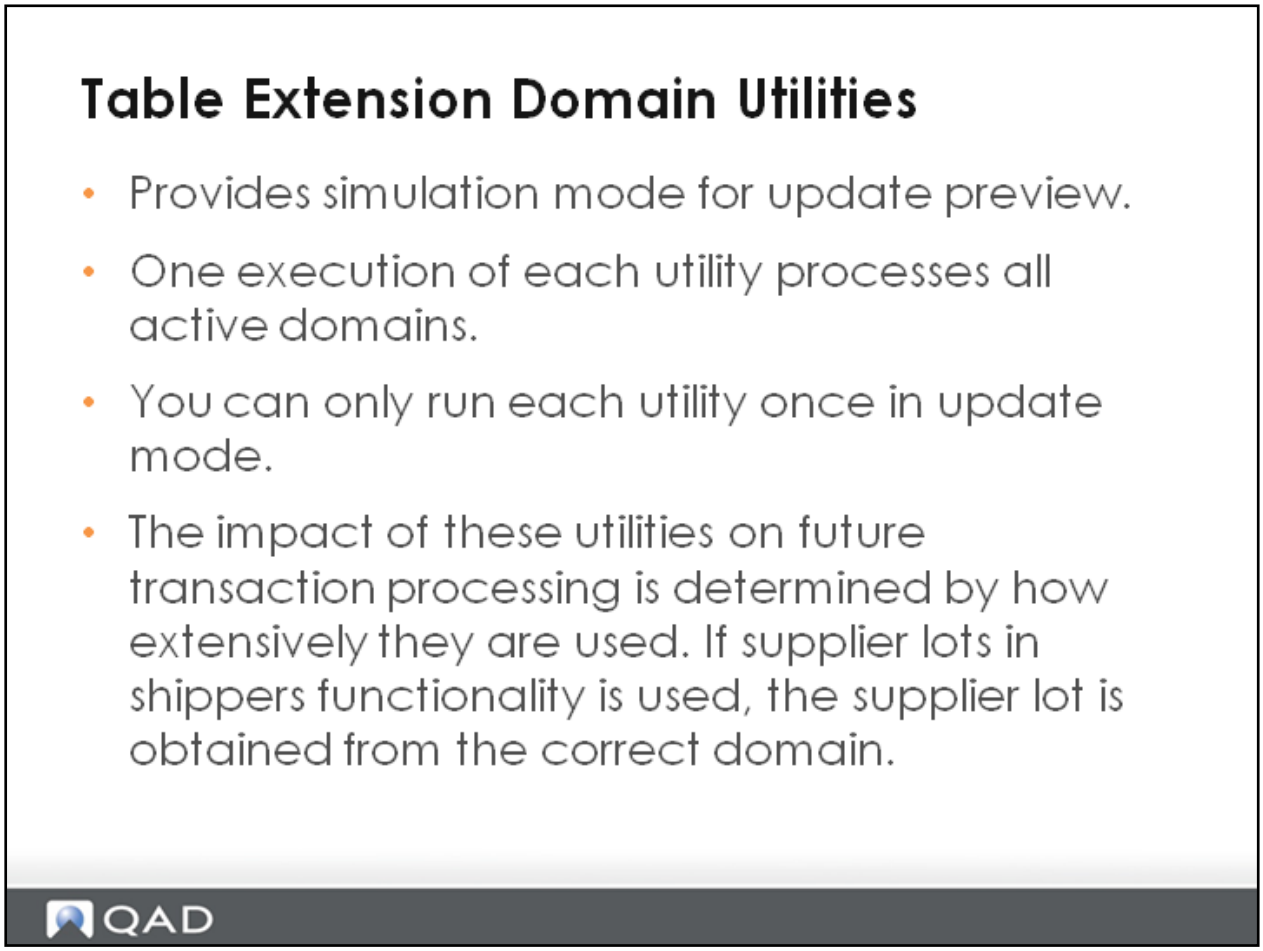
Table Extension Domain Utilities



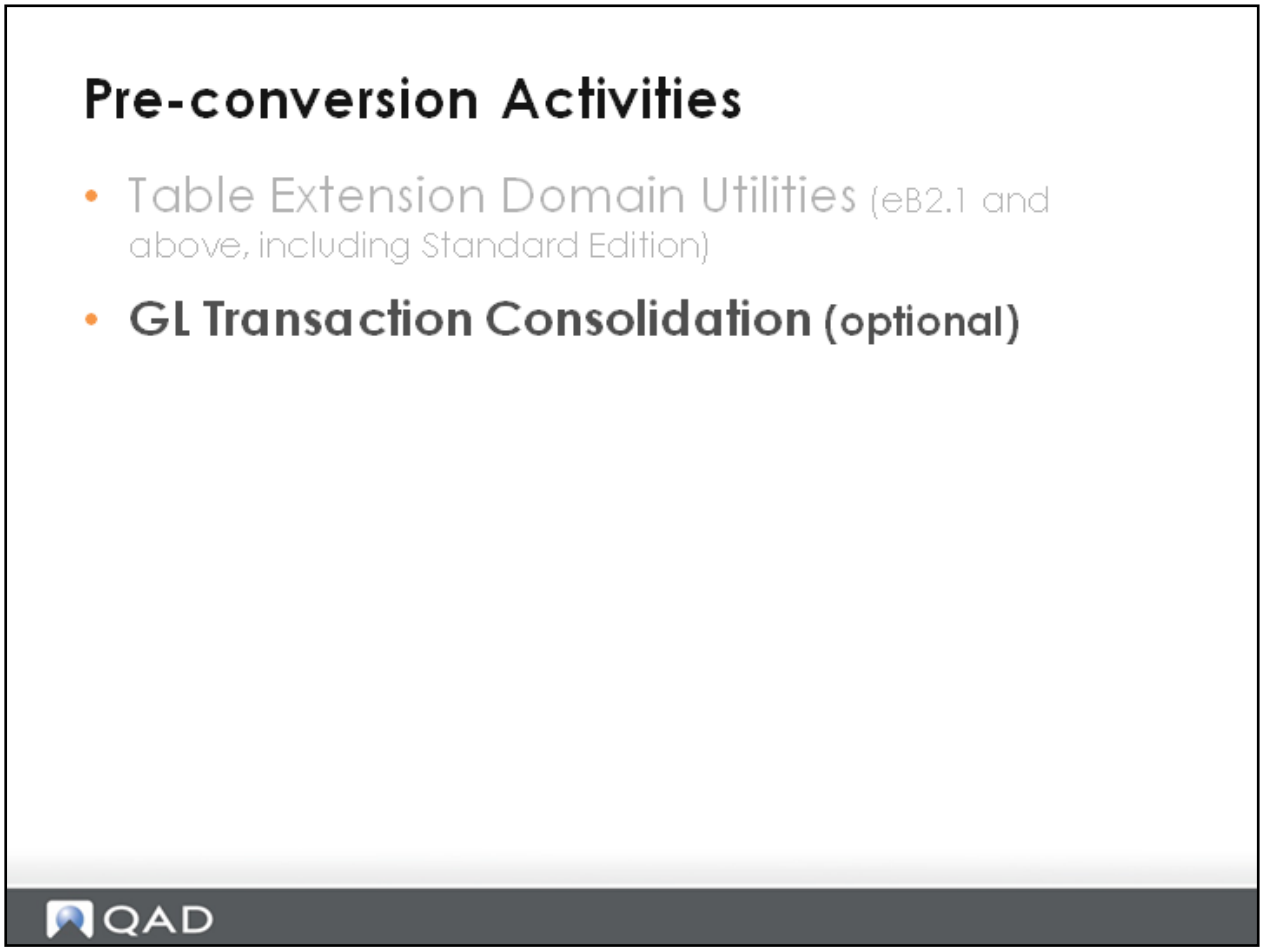
These utilities update domain information in a table called qtbl_ext and cover functionality for supplier lots on shippers and Expense Due account in Sales Account Maintenance.

You must run these utilities, even if they are not being used in your system, because subsequent processes in the pre-conversion steps check if these utilities were run.

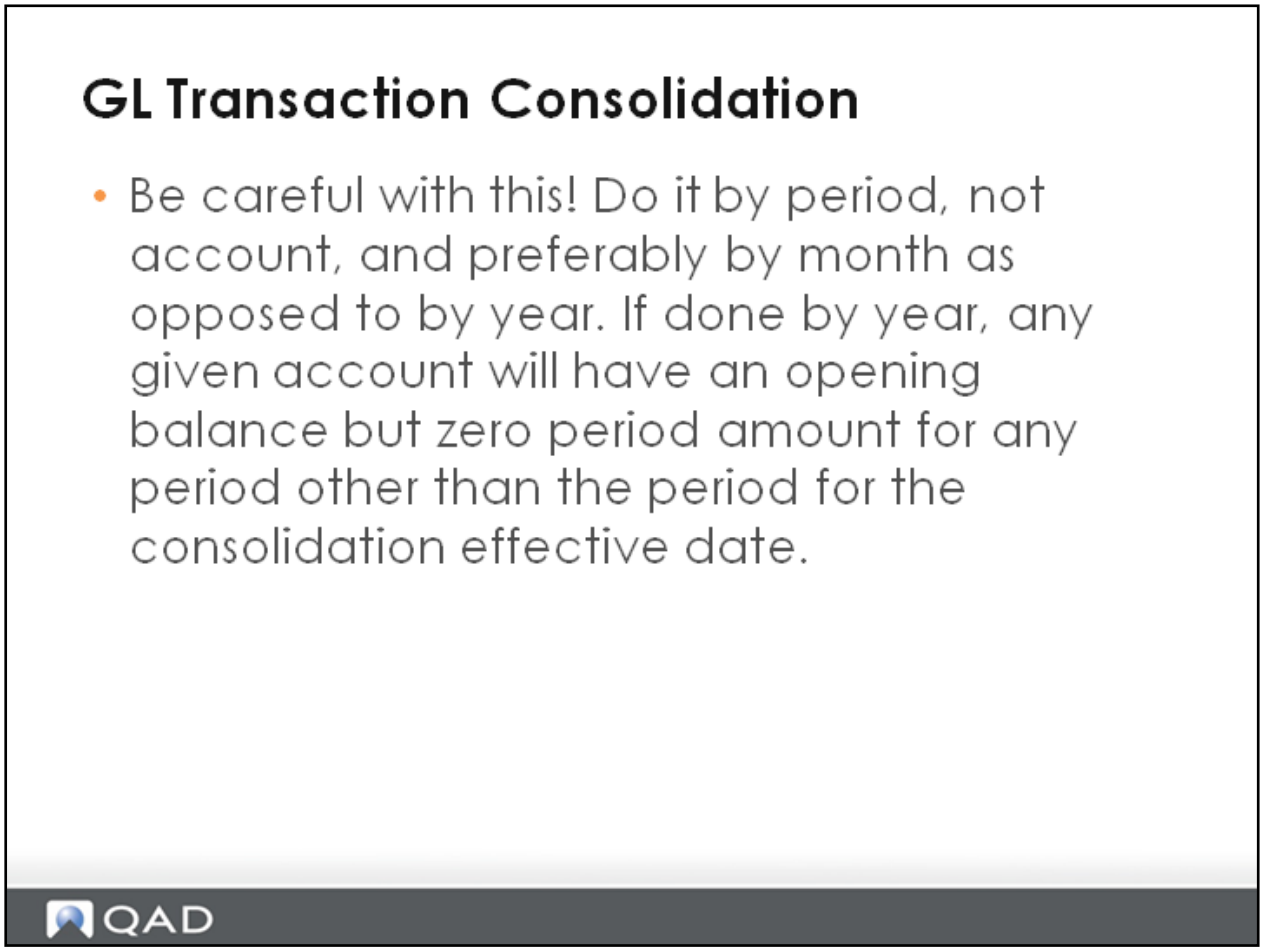
Table Extension Domain Utilities



Pre-conversion Activities

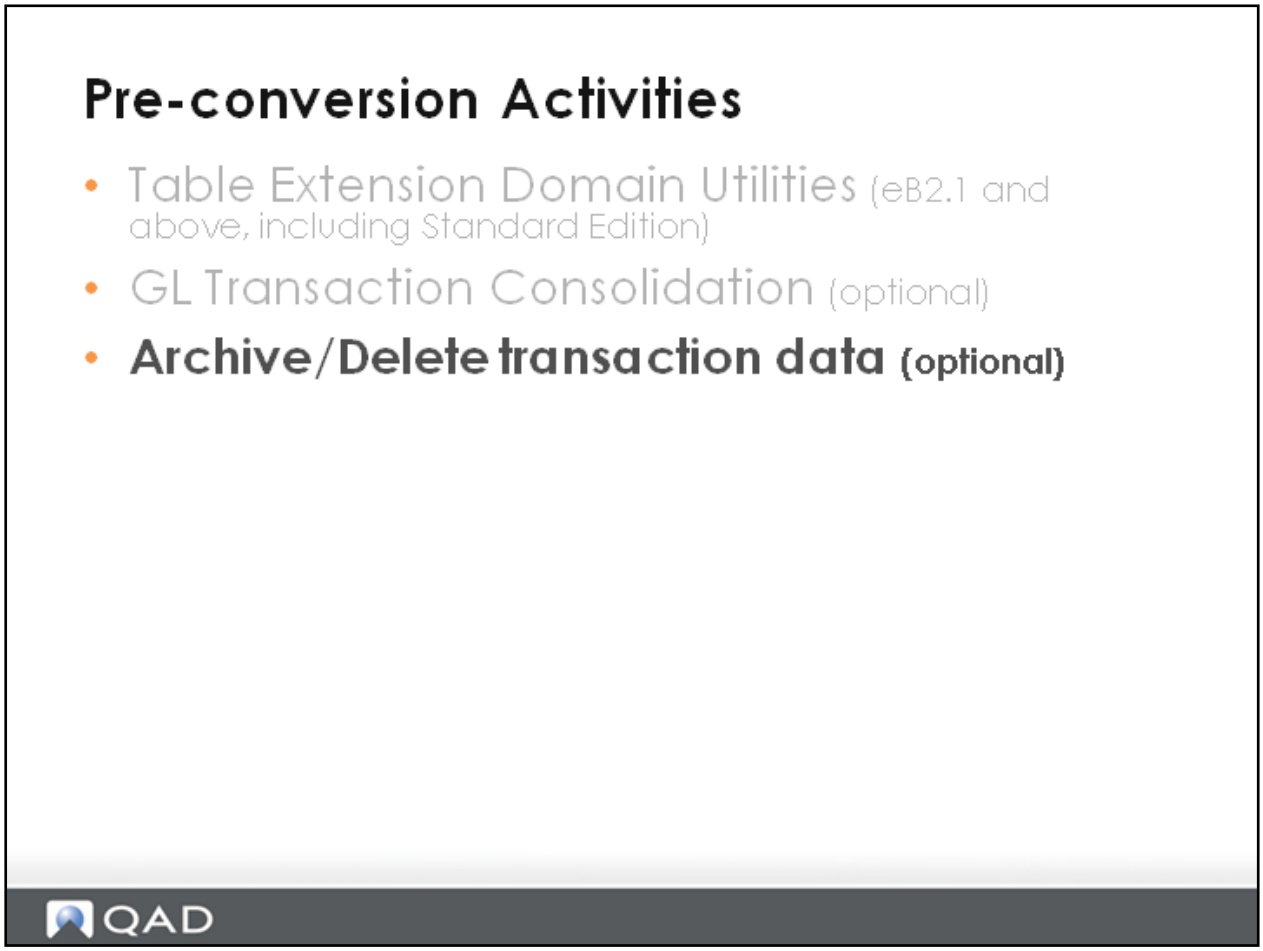


GL Transaction Consolidation



Running the Transaction Consolidation (25.13.11) utility minimizes the number of transactions that you need to convert.

Pre-conversion Activities



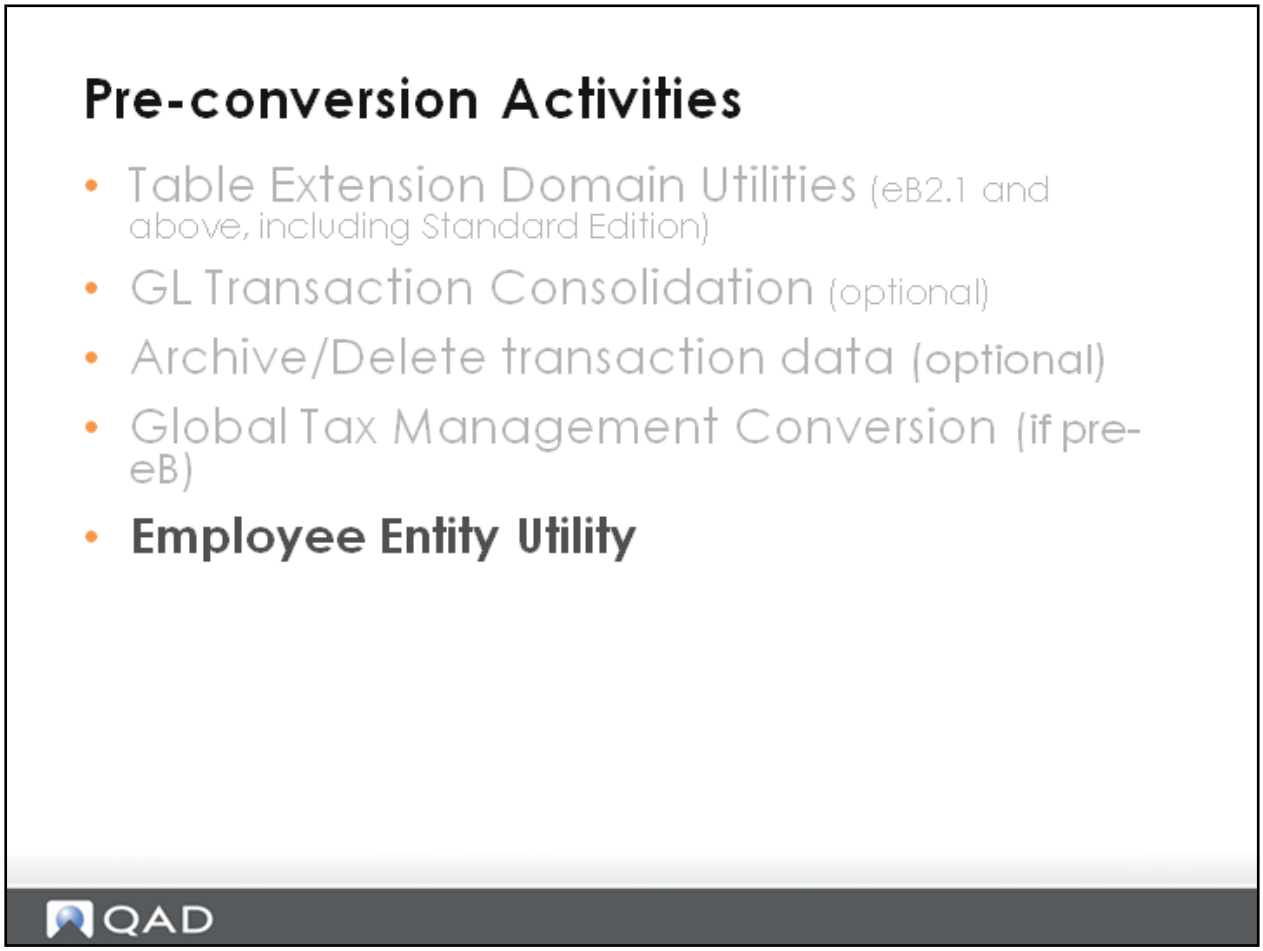
This involves various menus. It reduces conversion time.

Pre-conversion Activities



If you are on MFG/PRO version 8.6e or 9.0, you must convert to Global Tax Management before you can convert to QAD EE. The Global Tax Management environment is the only tax environment that is supported after eB, so you are required to do the Global Tax Management steps as part of the pre-conversion steps for conversion to QAD EE.

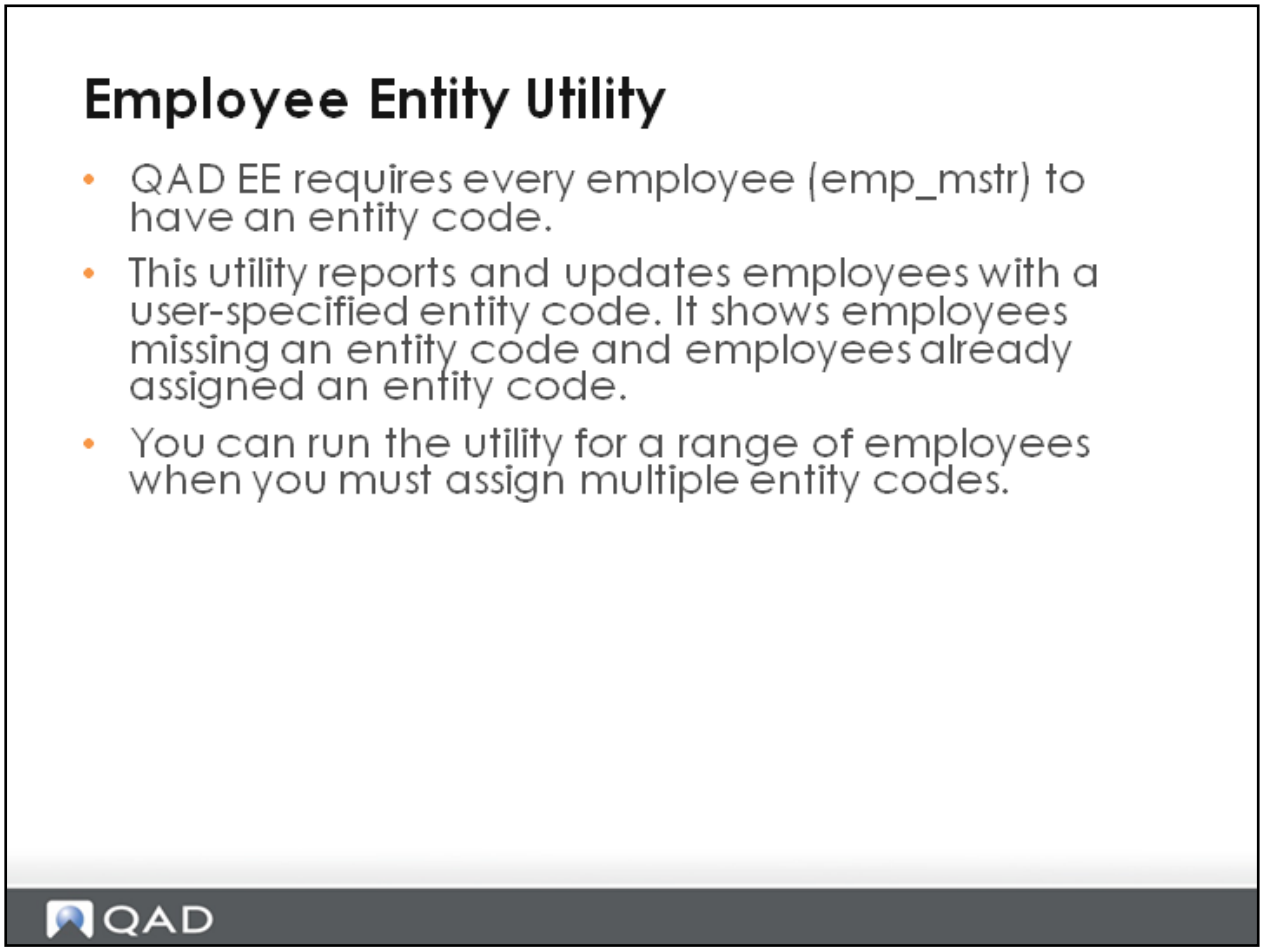
Pre-conversion Activities



We will now discuss some of the new utilities and reports that were provided for conversion to EE.

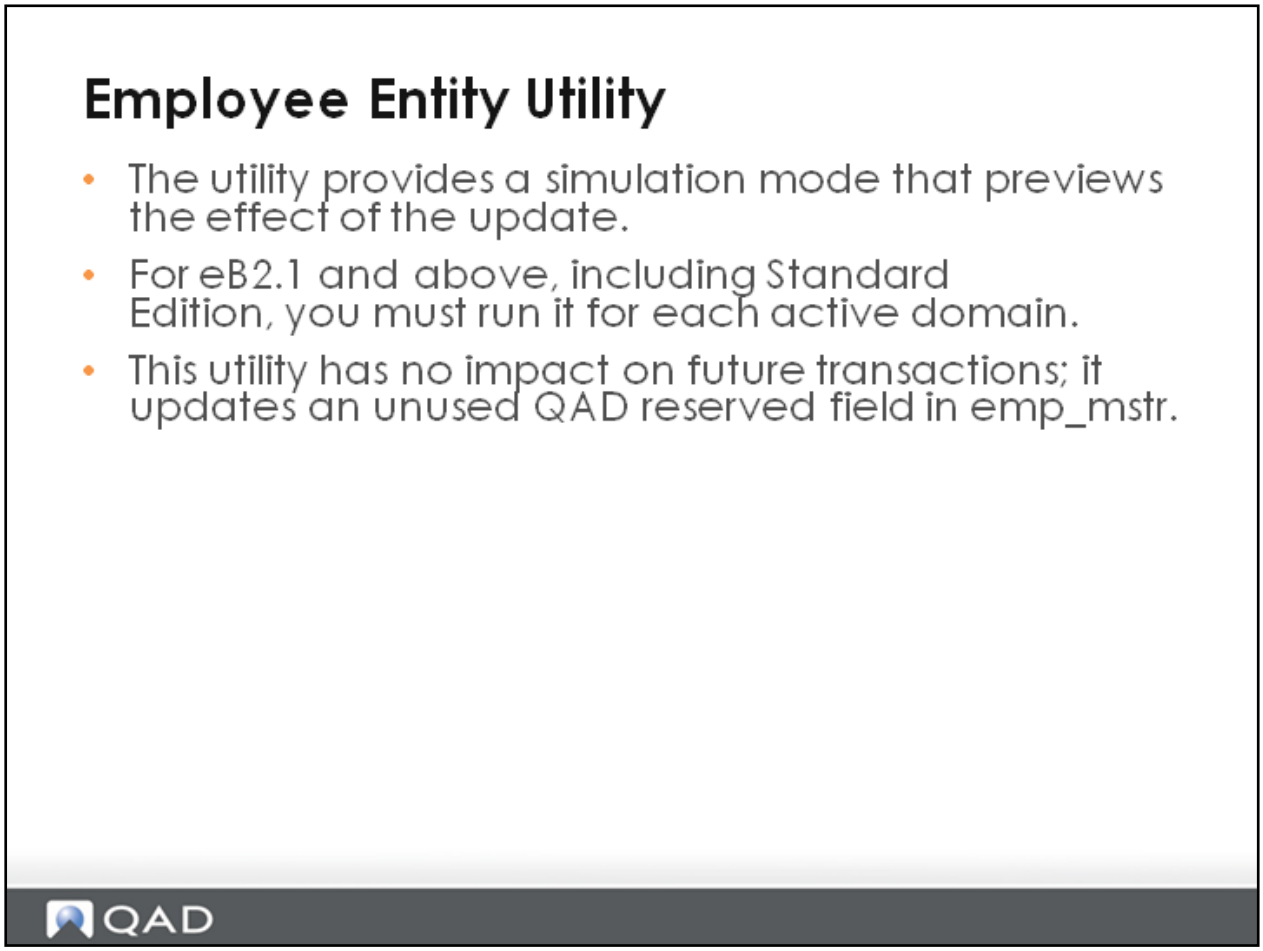
Utilities that can automatically correct data without user input (for example, Orphaned Addresses, End User Contacts) will update data in all domains. You must run utilities that require user input separately for each active domain because different people may be responsible for each domain.

Employee Entity Utility



To see employees missing entity codes, leave the Entity field blank and Update = No.

Employee Entity Utility



Employee Entity Utility

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"

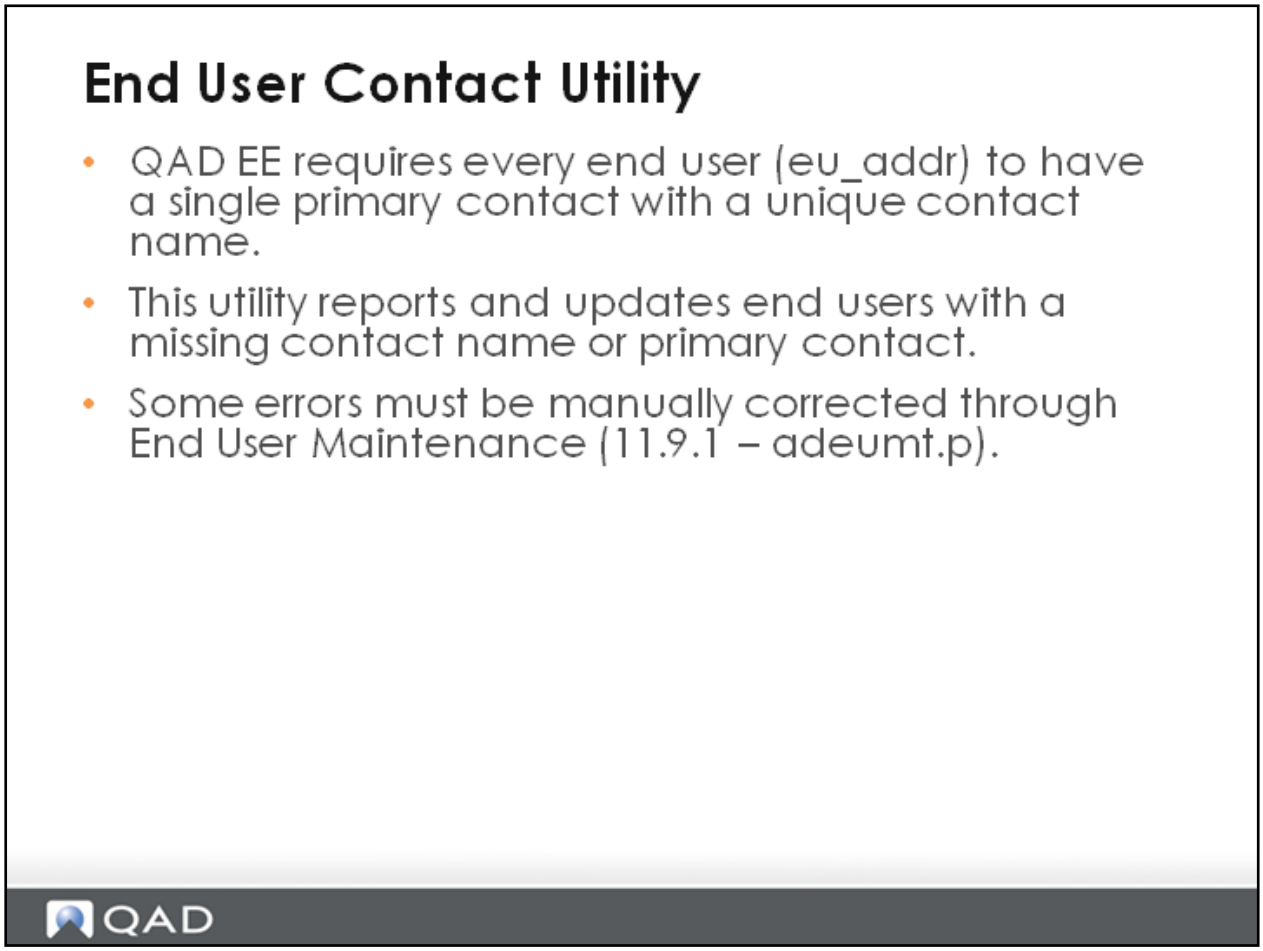
       Employee First Name       Last Name        Entity   Entity Name
       -------- ---------------- ---------------- -------- ------------------------------------
       2550                                        1000     Test Company Primary
       7000     Wright           Ed               1000     Test 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
```

QAD

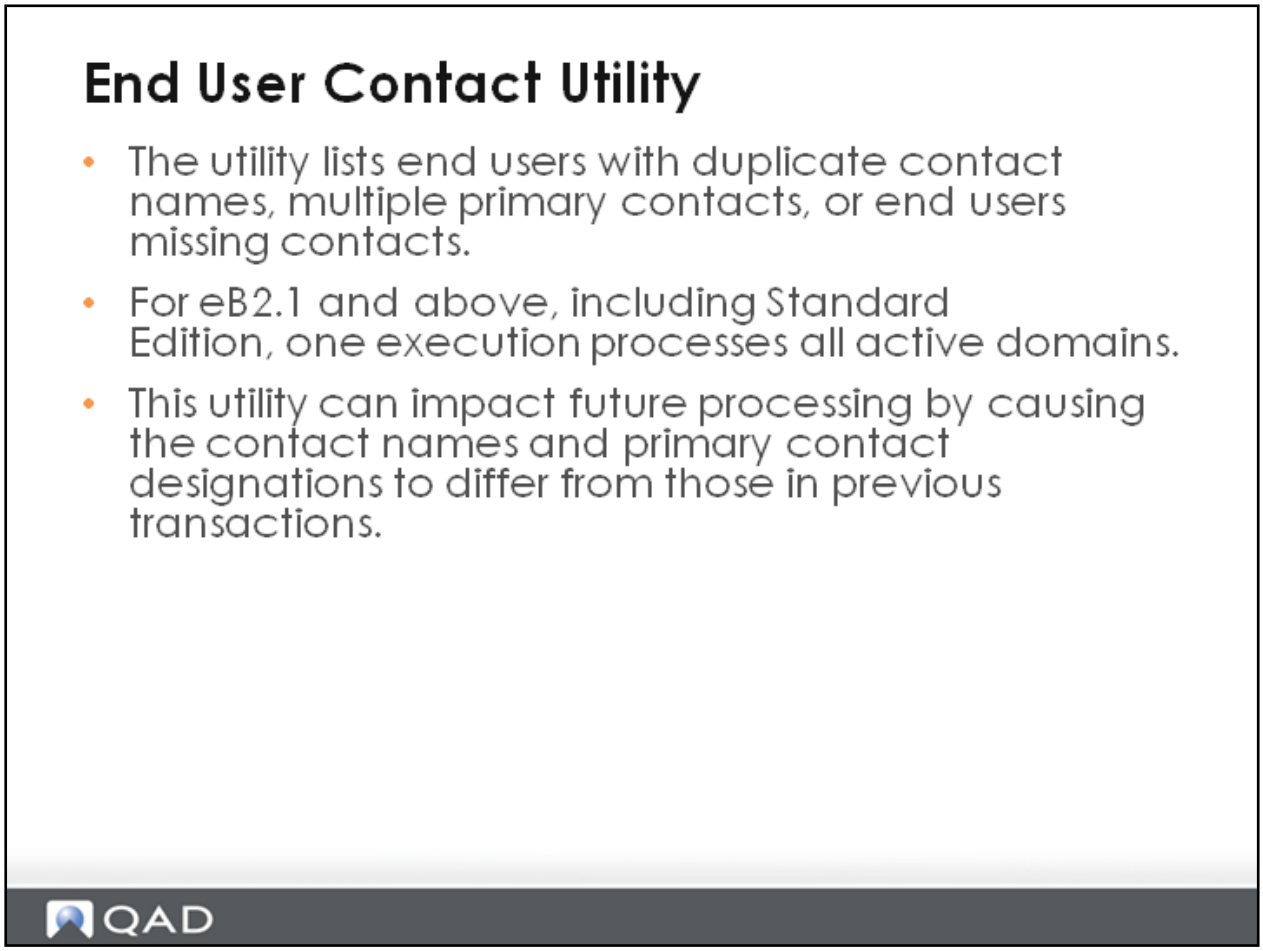
Pre-conversion Activities



End User Contact Utility



End User Contact Utility



End User Contact Utility

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

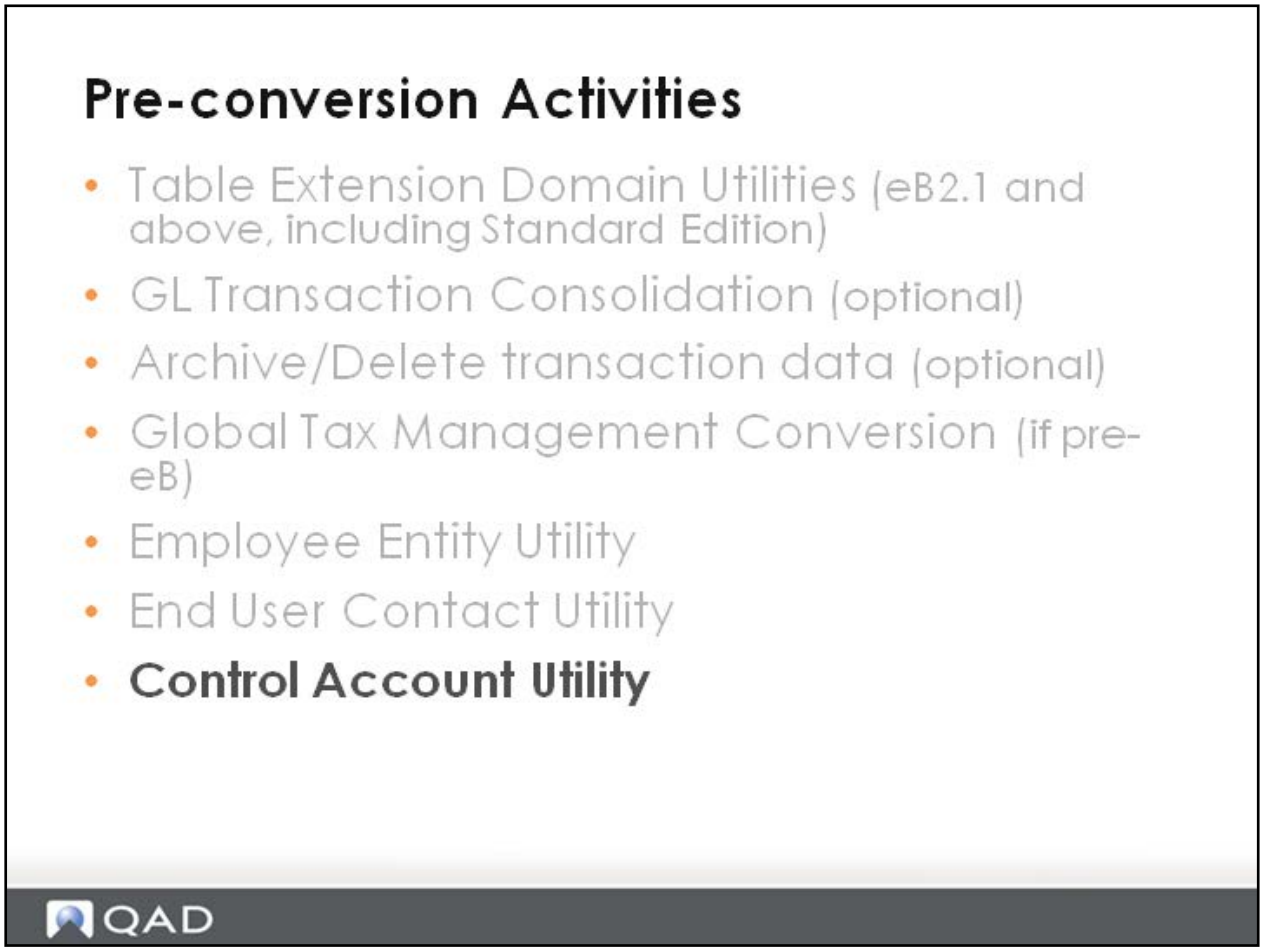
DOM1 USD DB NY [USD]                          End User Contact Utility                                    Date:
Page     2                                                                                                Time:
                                  * * * * * * * * * * S I M U L A T I O N * *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

Domain: Domain1

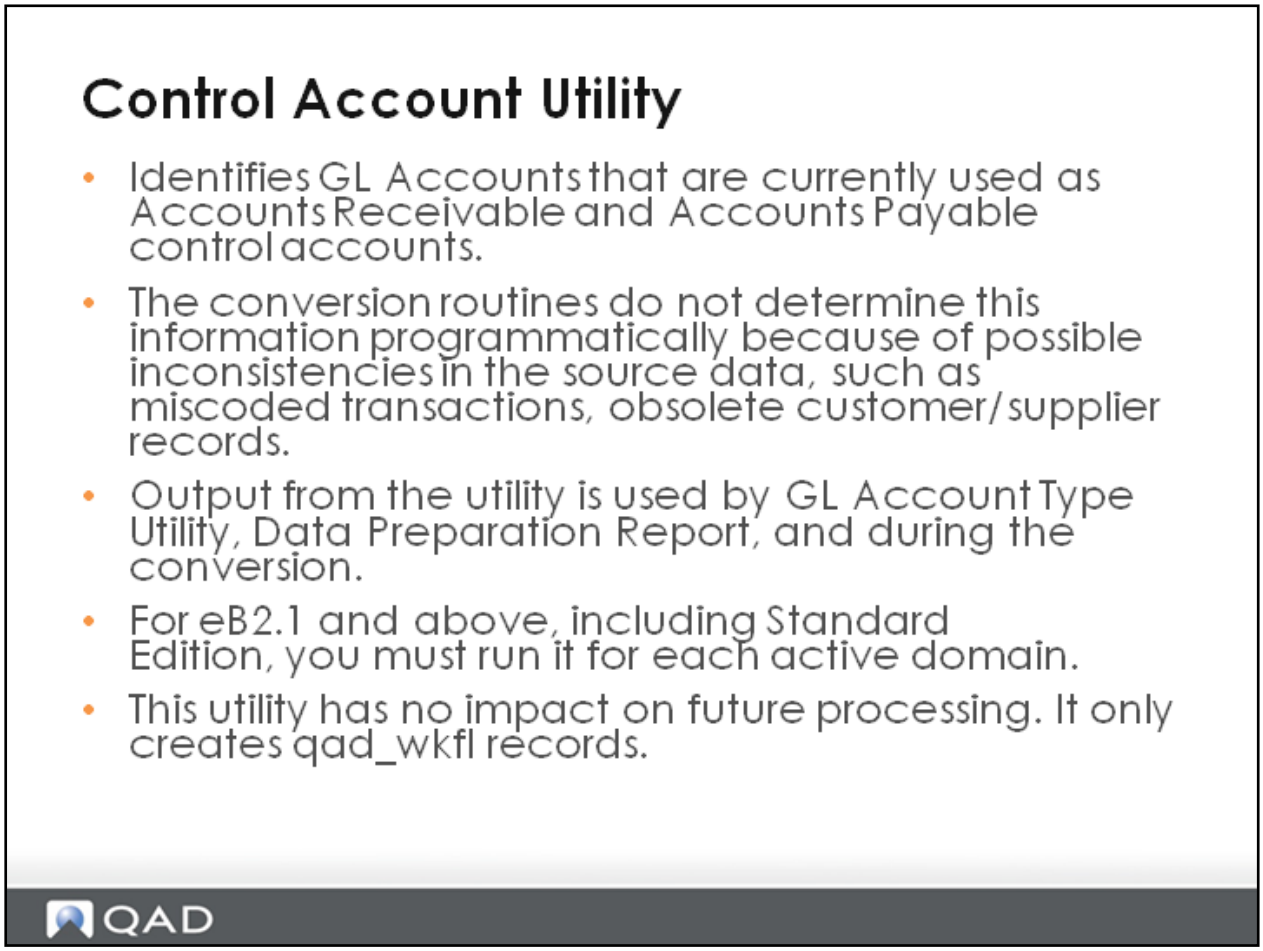
Customer Customer Name                End User Contact Name                          Type Message
-------- ---------------------------- -------- ------------------------------------ ---- --------------------------------
SSM1001  SSM CUSTOMER 1               Endsm101 Mike                                      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
```

QAD

Pre-conversion Activities



Control Account Utility

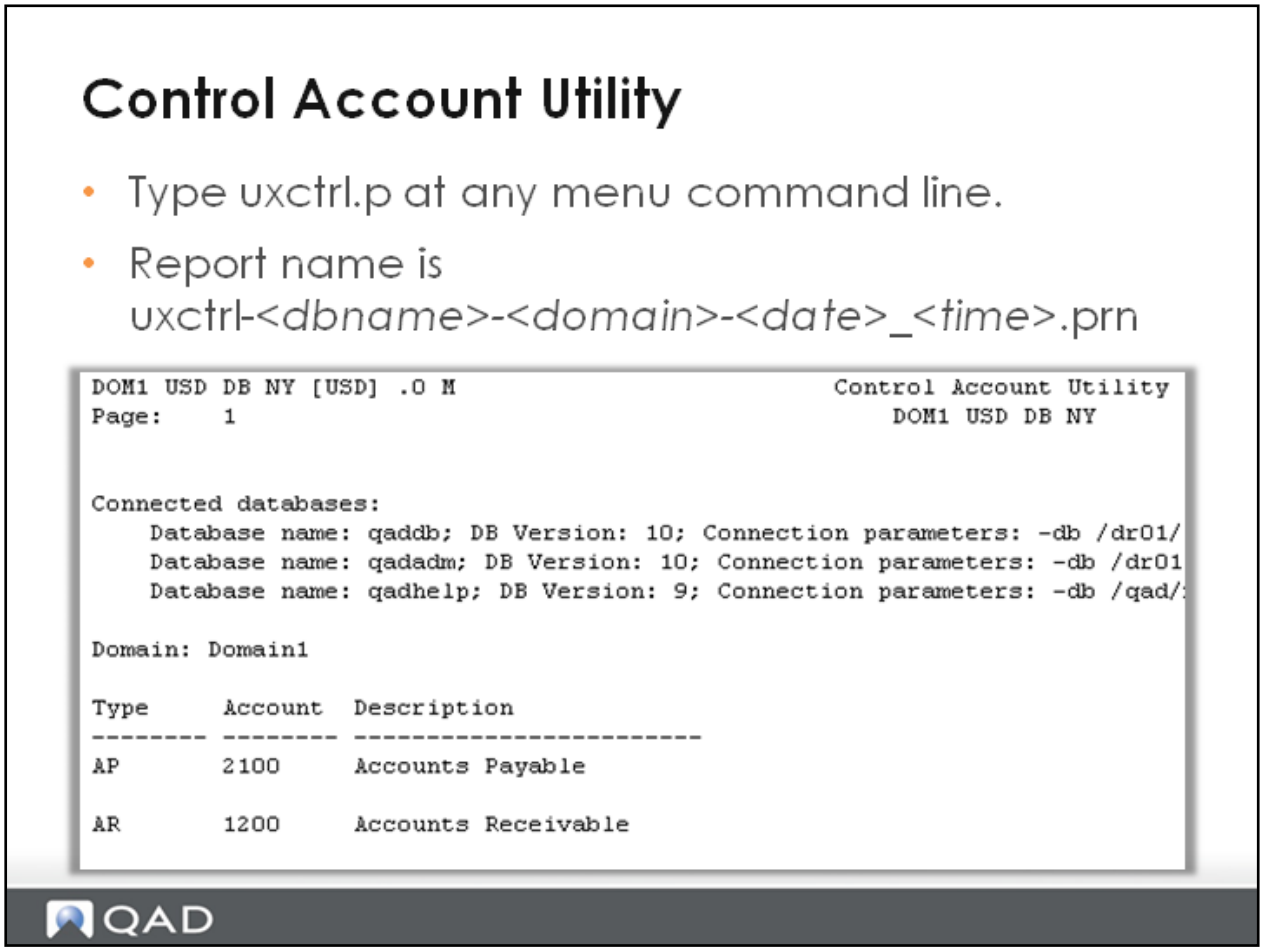


The conversion must know which GL account codes are used to reconcile your Accounts Receivable and Accounts Payable to the General Ledger.

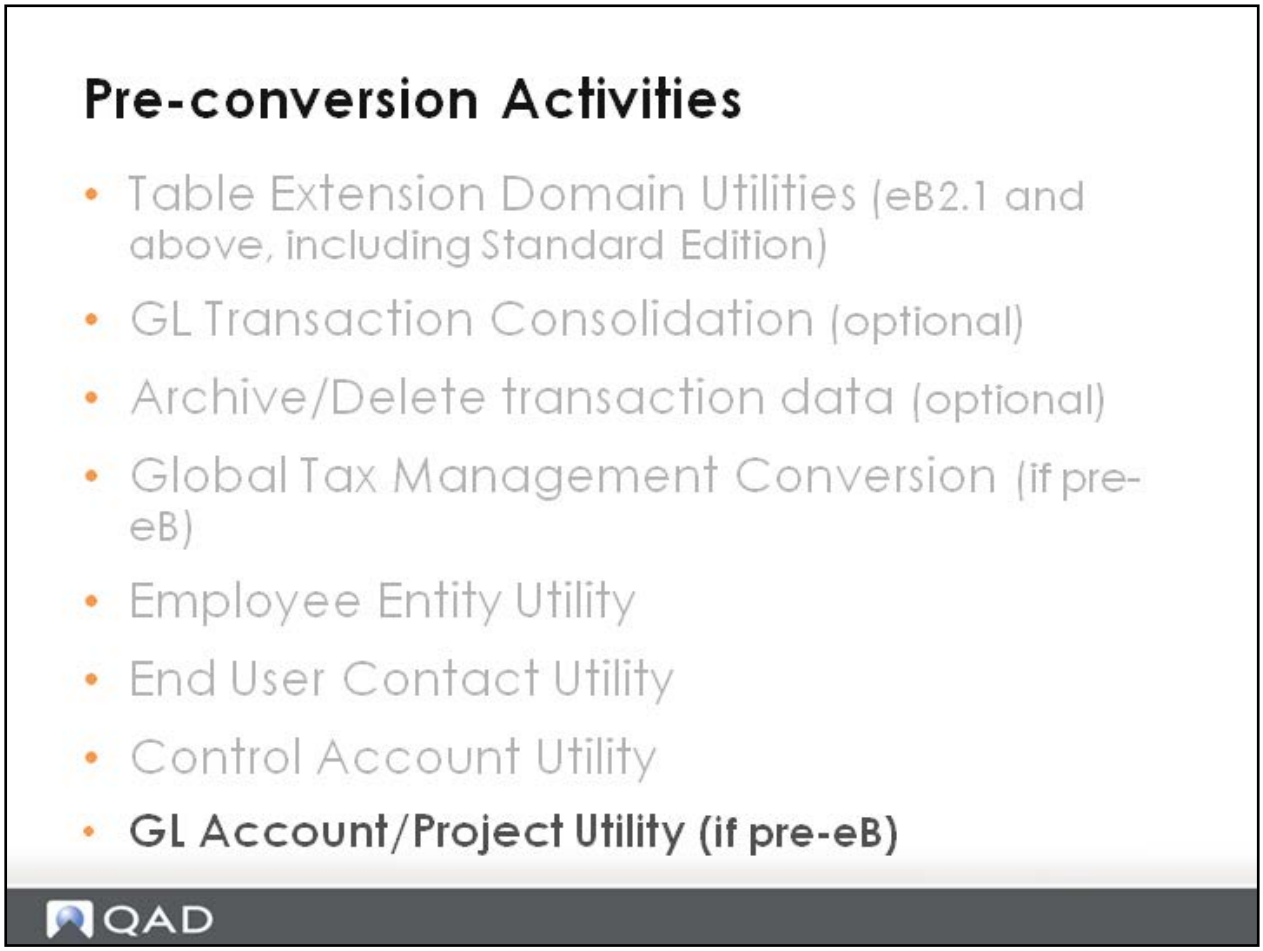
You are prompted to enter a list of GL account codes that you currently use for each of these areas.

You can enter the same account for both Accounts Receivable and Accounts Payable, if that is your current practice. However, you are required to provide an alternate account for one of these instances later in the GL Account Type Utility.

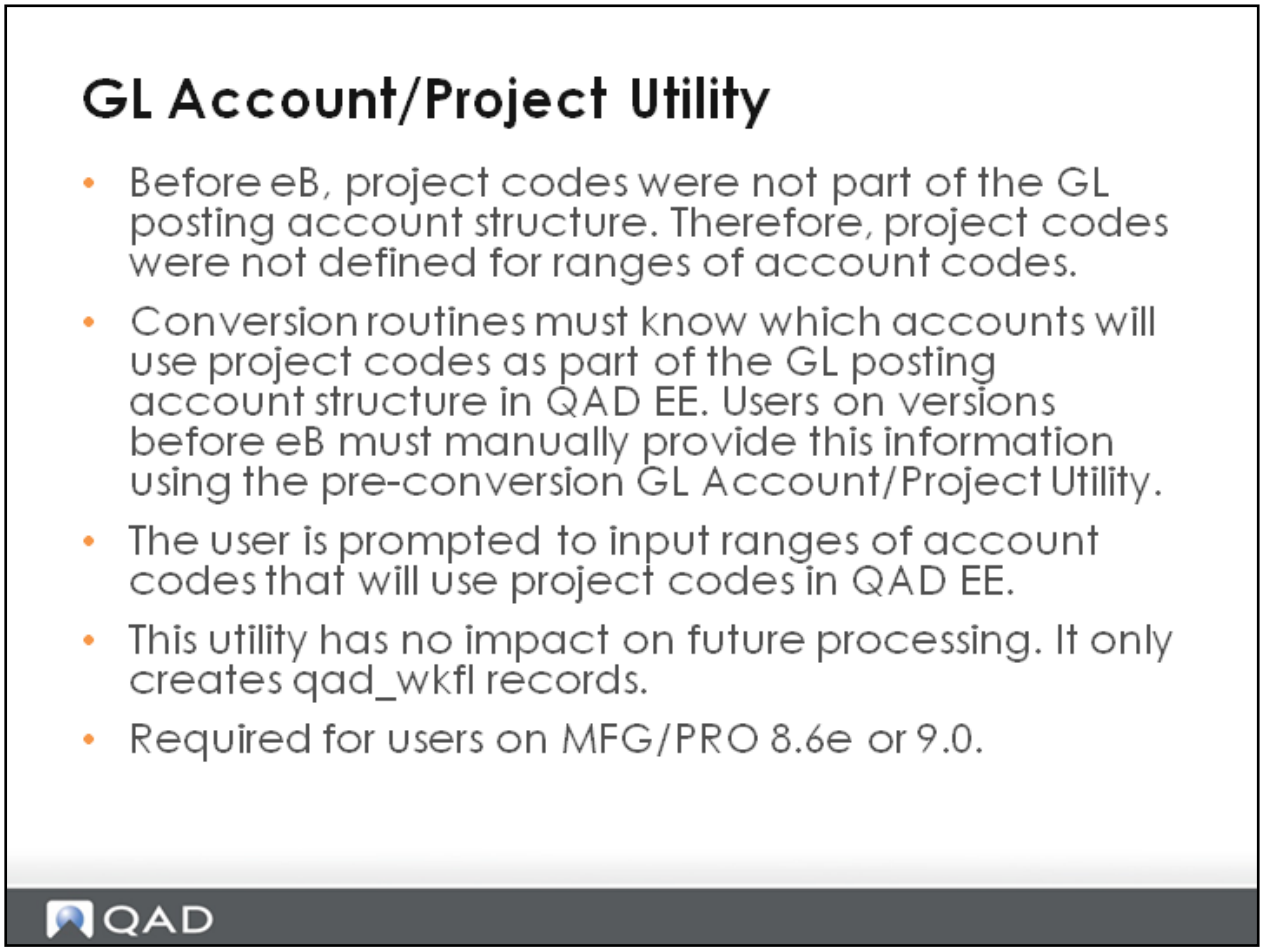
Control Account Utility



Pre-conversion Activities

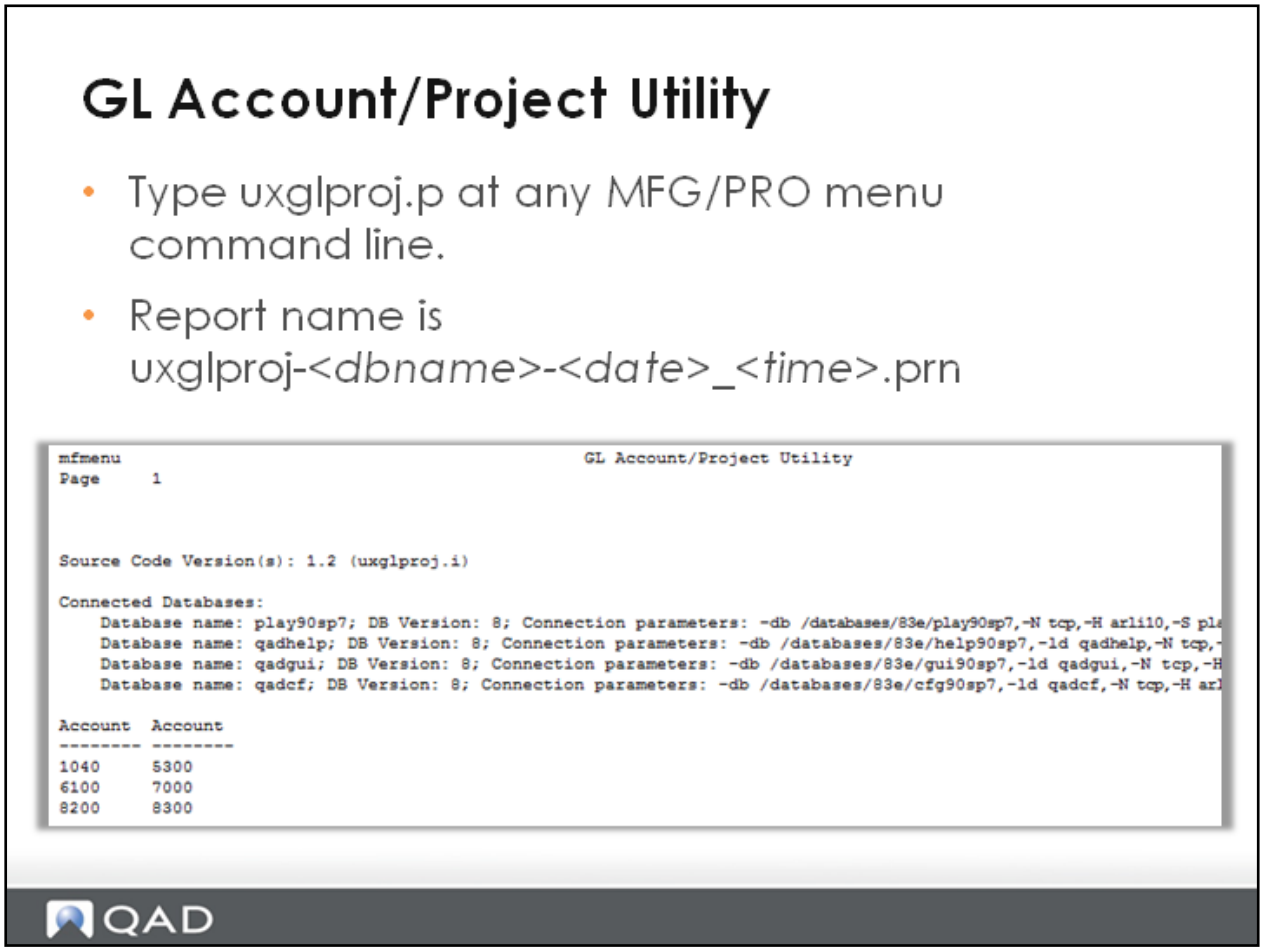


GL Account/Project Utility

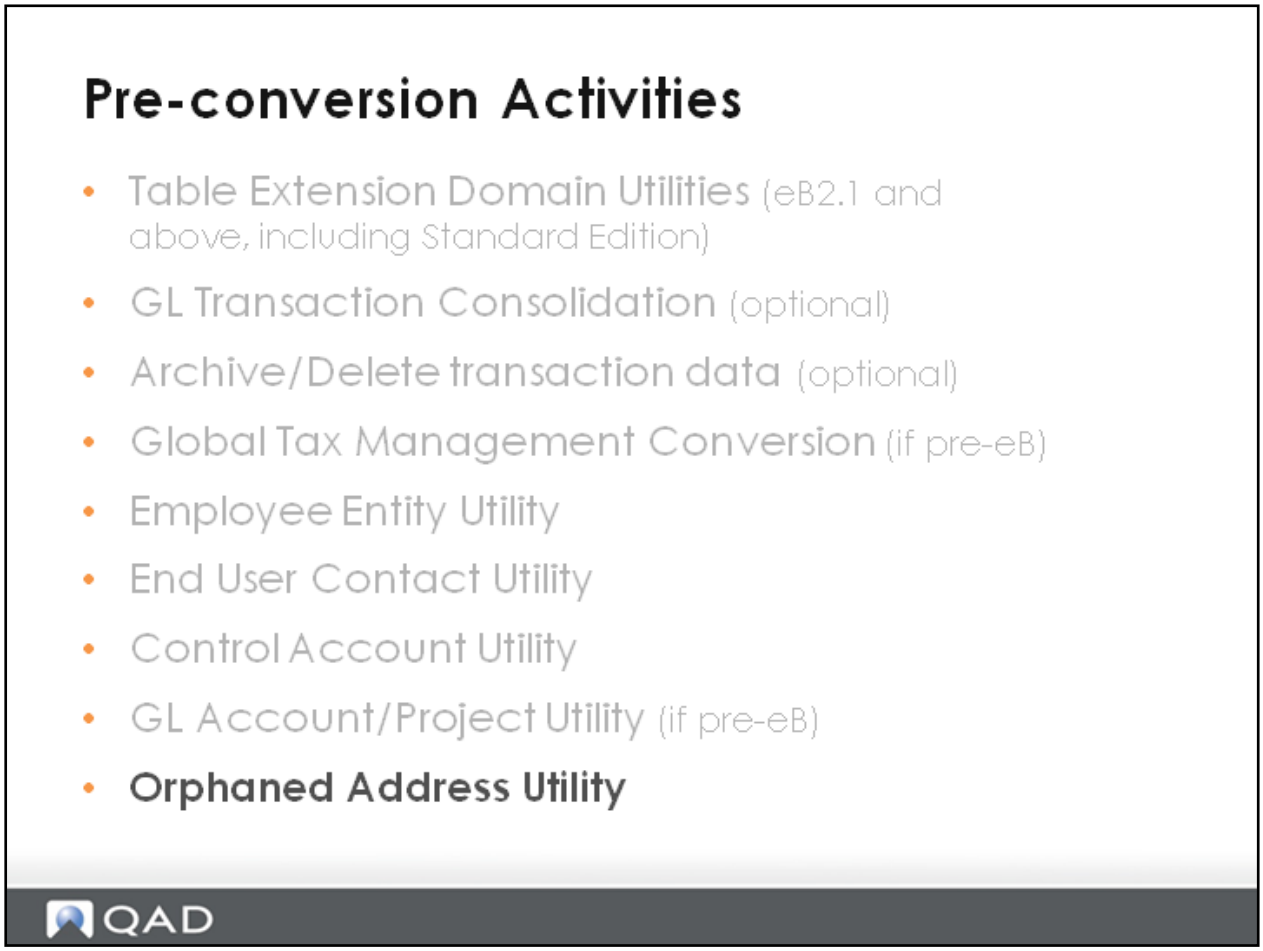


This is required for users on MFG/PRO 8.6e or 9.0.

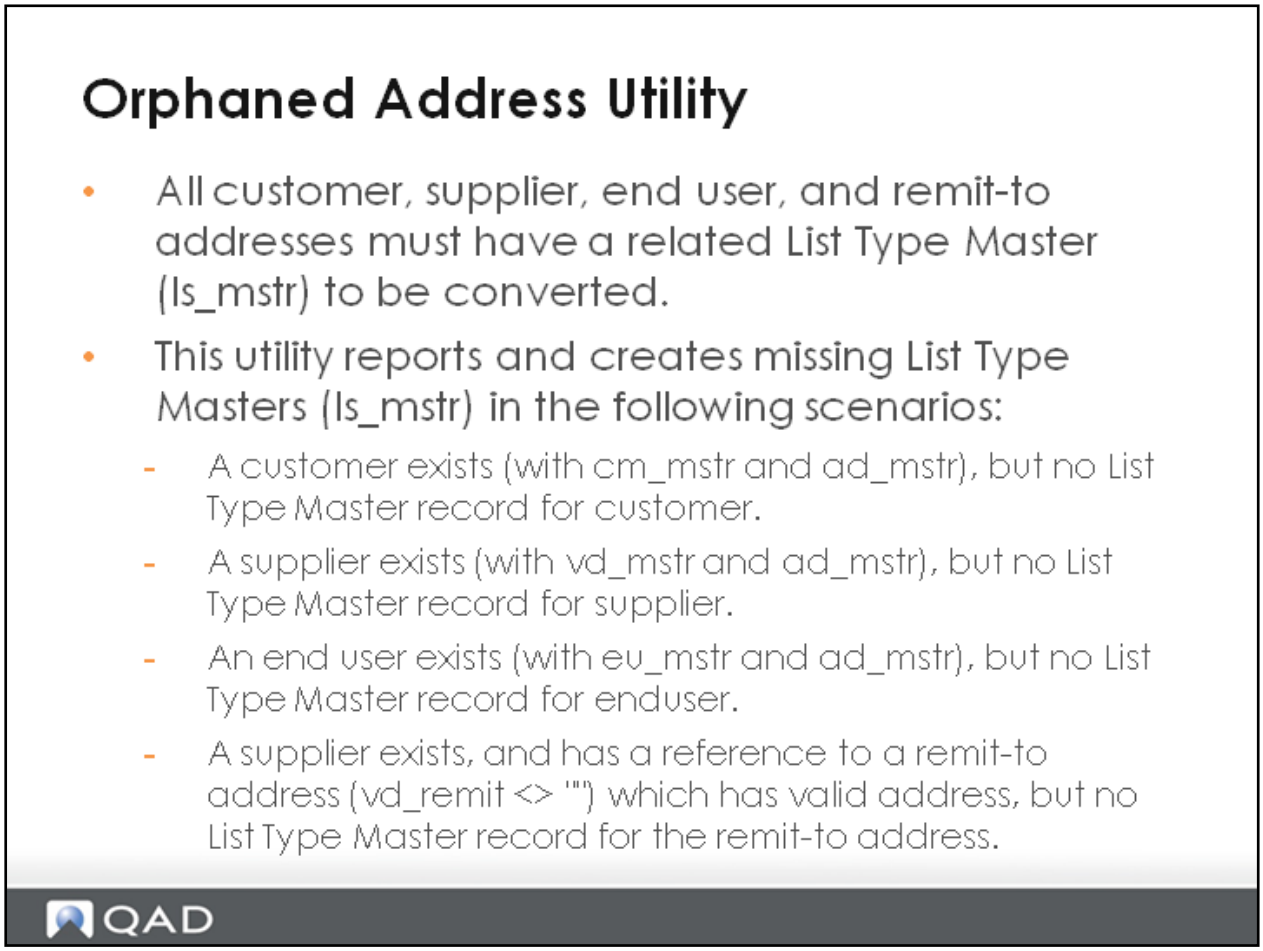
GL Account/Project Utility



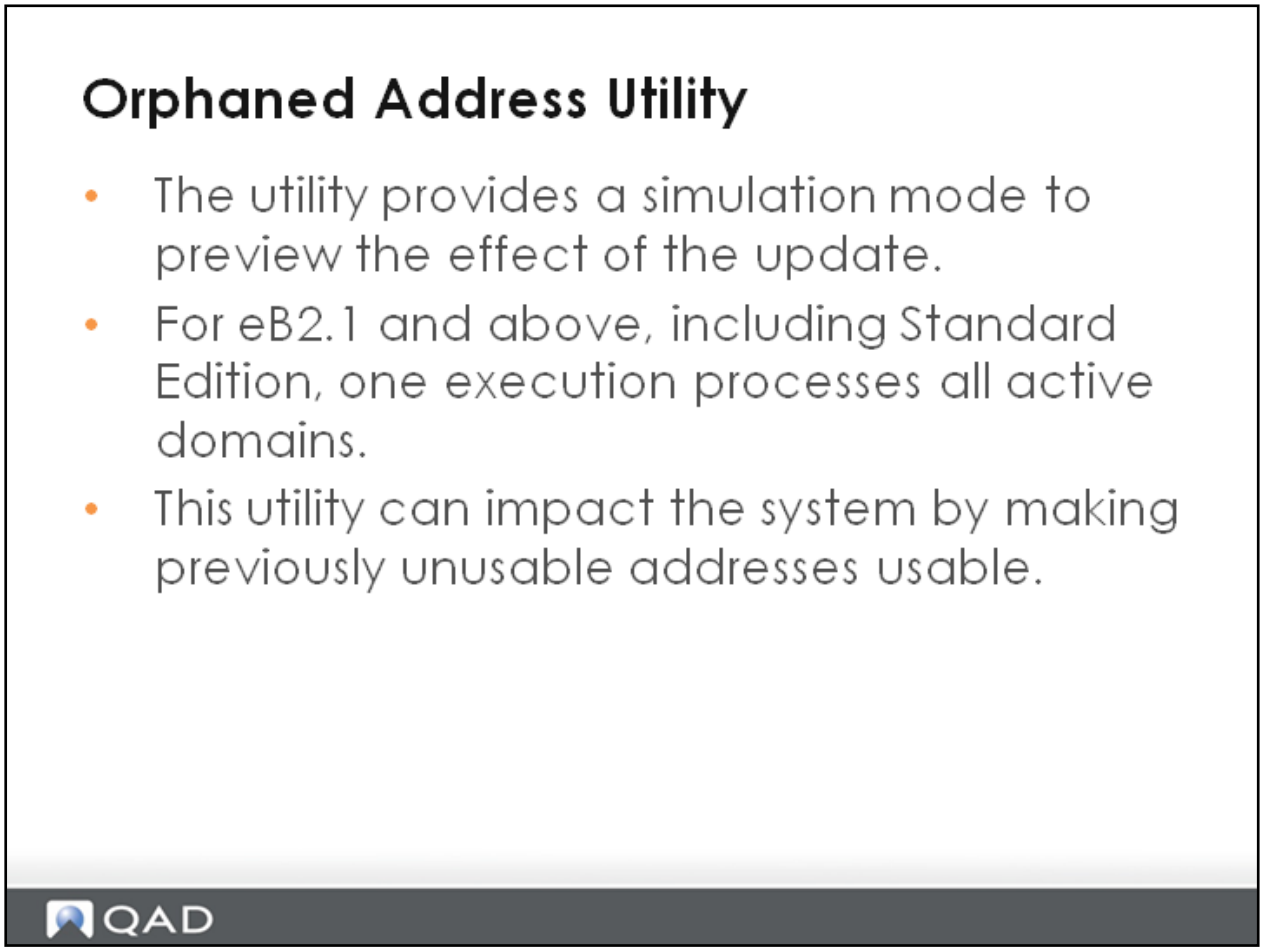
Pre-conversion Activities



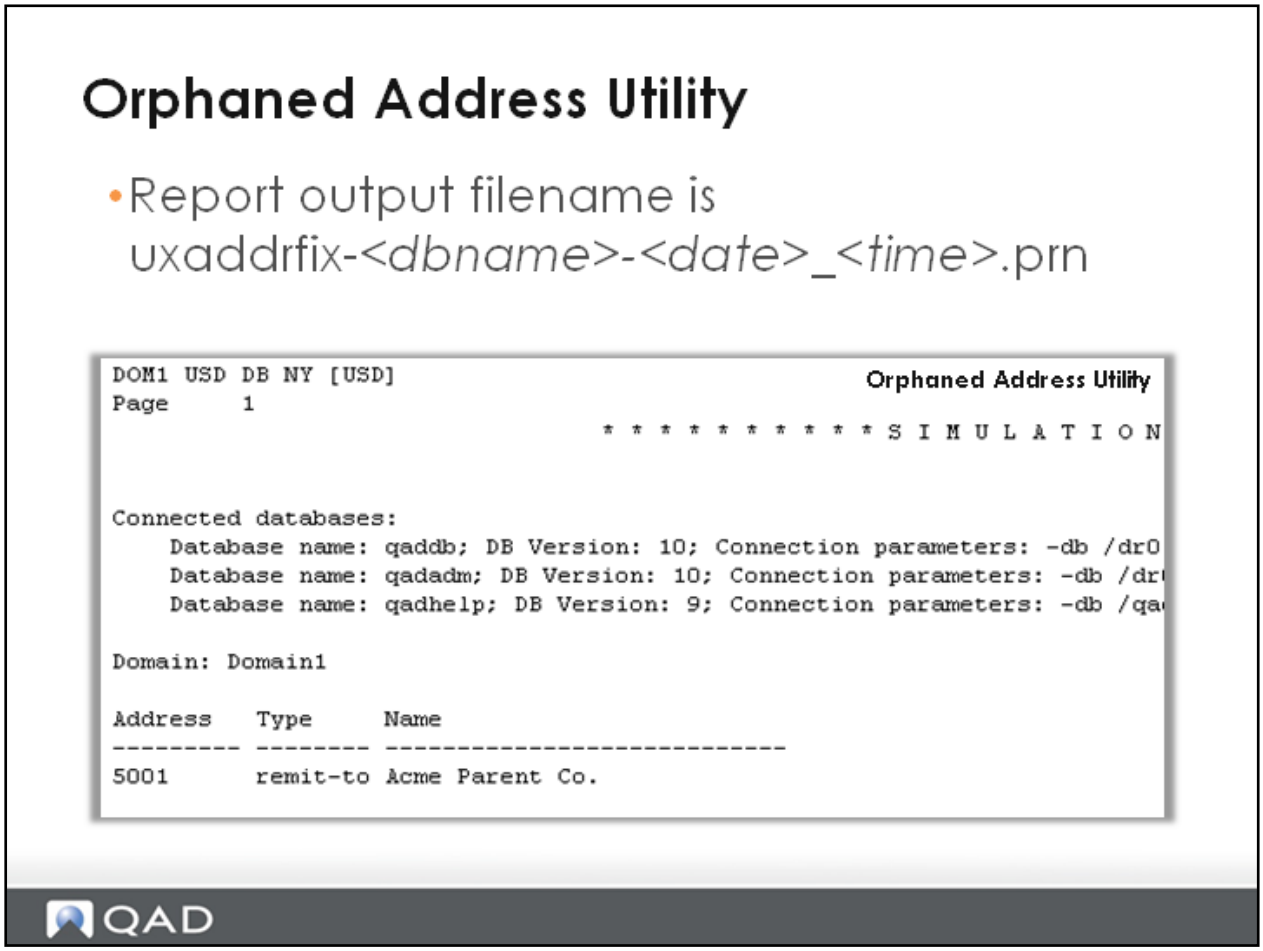
Orphaned Address Utility



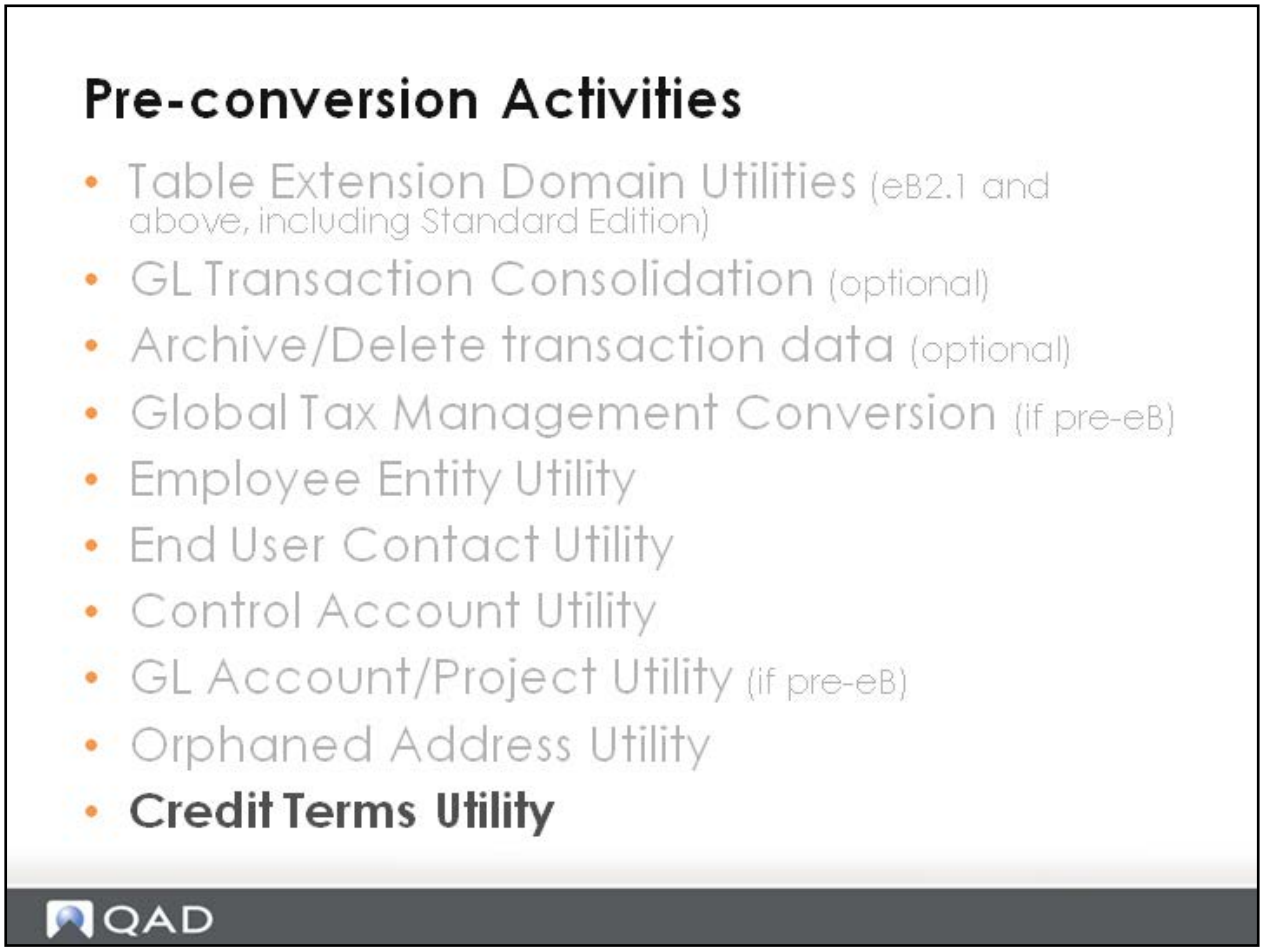
Orphaned Address Utility



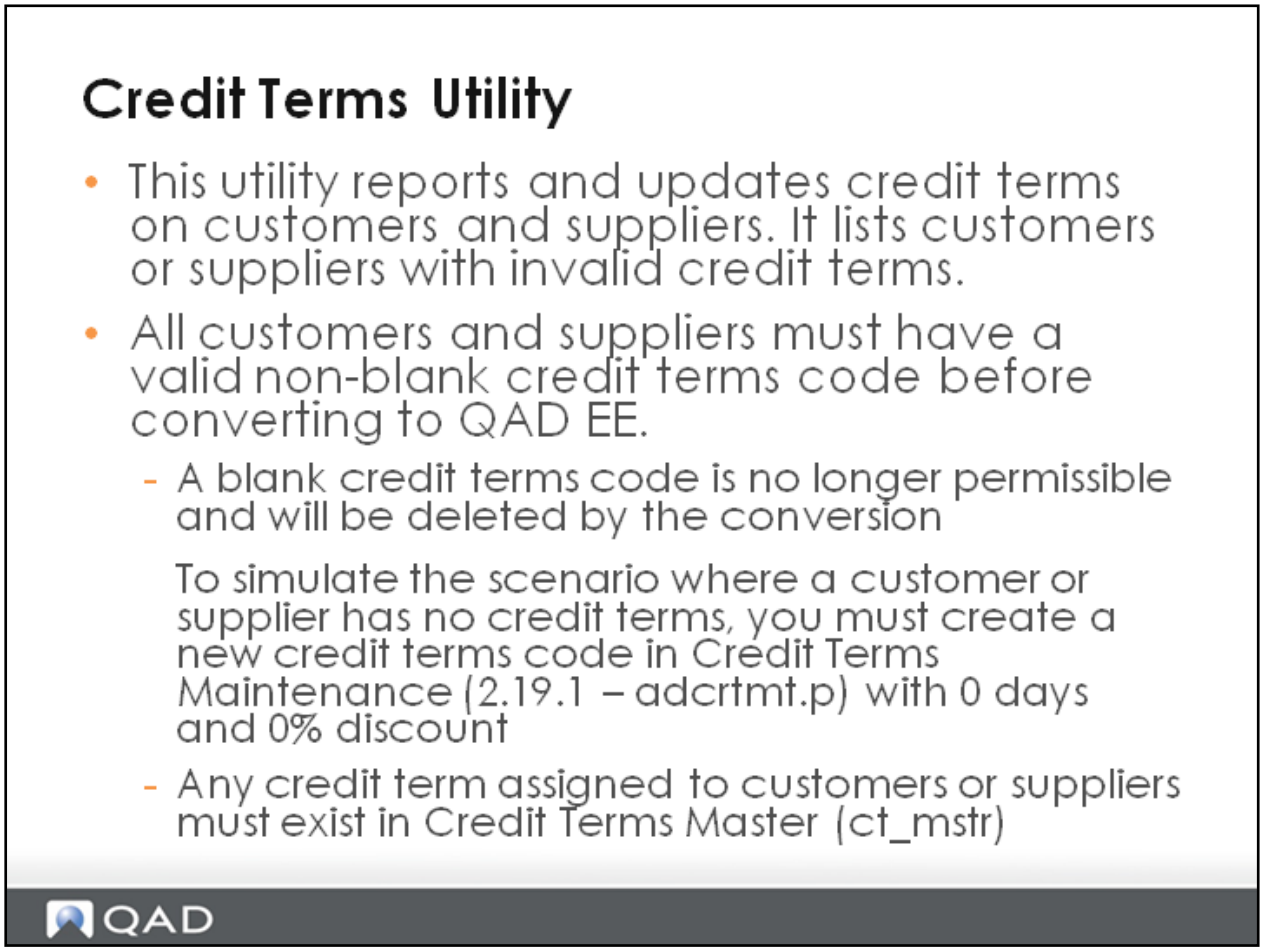
Orphaned Address Utility



Pre-conversion Activities



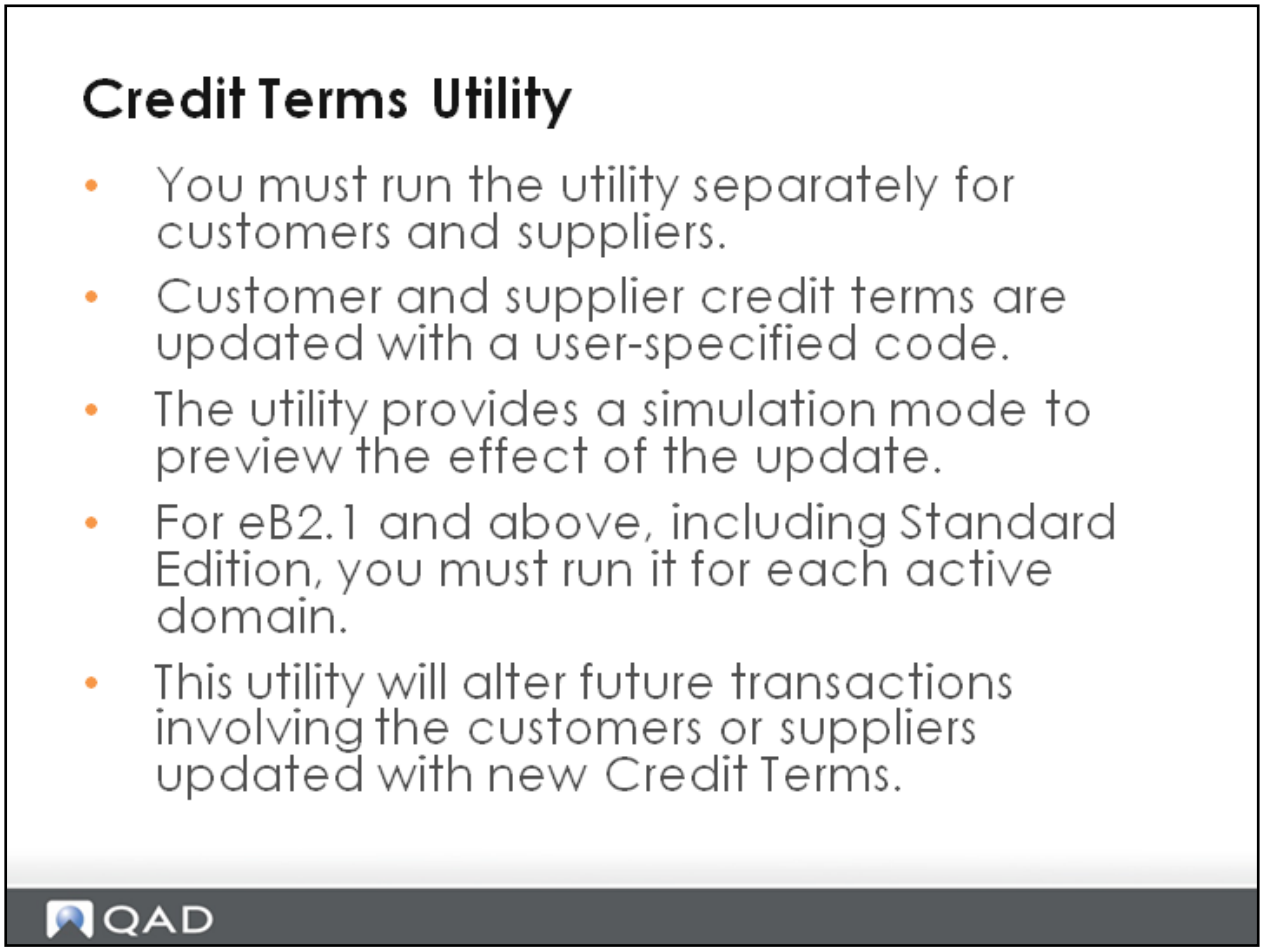
Credit Terms Utility



This utility lists and allows you to update any credit terms for suppliers or customers with blank or invalid credit terms.

- Invalid credit terms could be credit terms codes that once were in your system, but no longer exist or were deleted.
- Customers or suppliers without credit terms (for example, blank credit terms) must now be assigned a credit term. This can be simulated by creating a credit terms code with 0 days and 0% discount.
- You must run this utility separately for customers and suppliers as well as for each domain.

Credit Terms Utility



Credit Terms Utility

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 * * * *

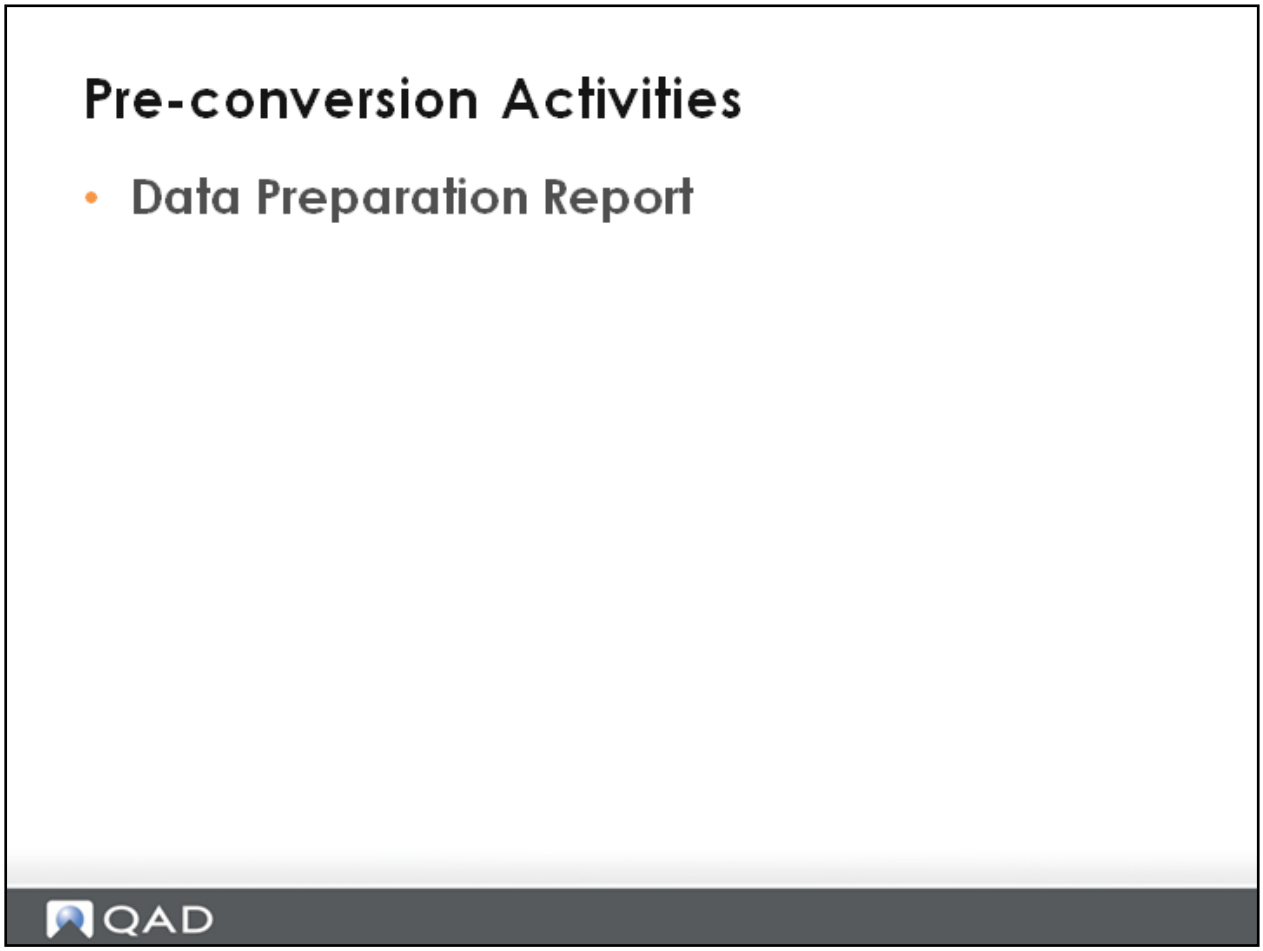

Connected databases:
    Database name: qaddb; DB Version: 10; Connection parameters: -db /dr01/data/
    Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/
    Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro

Domain: Domain1

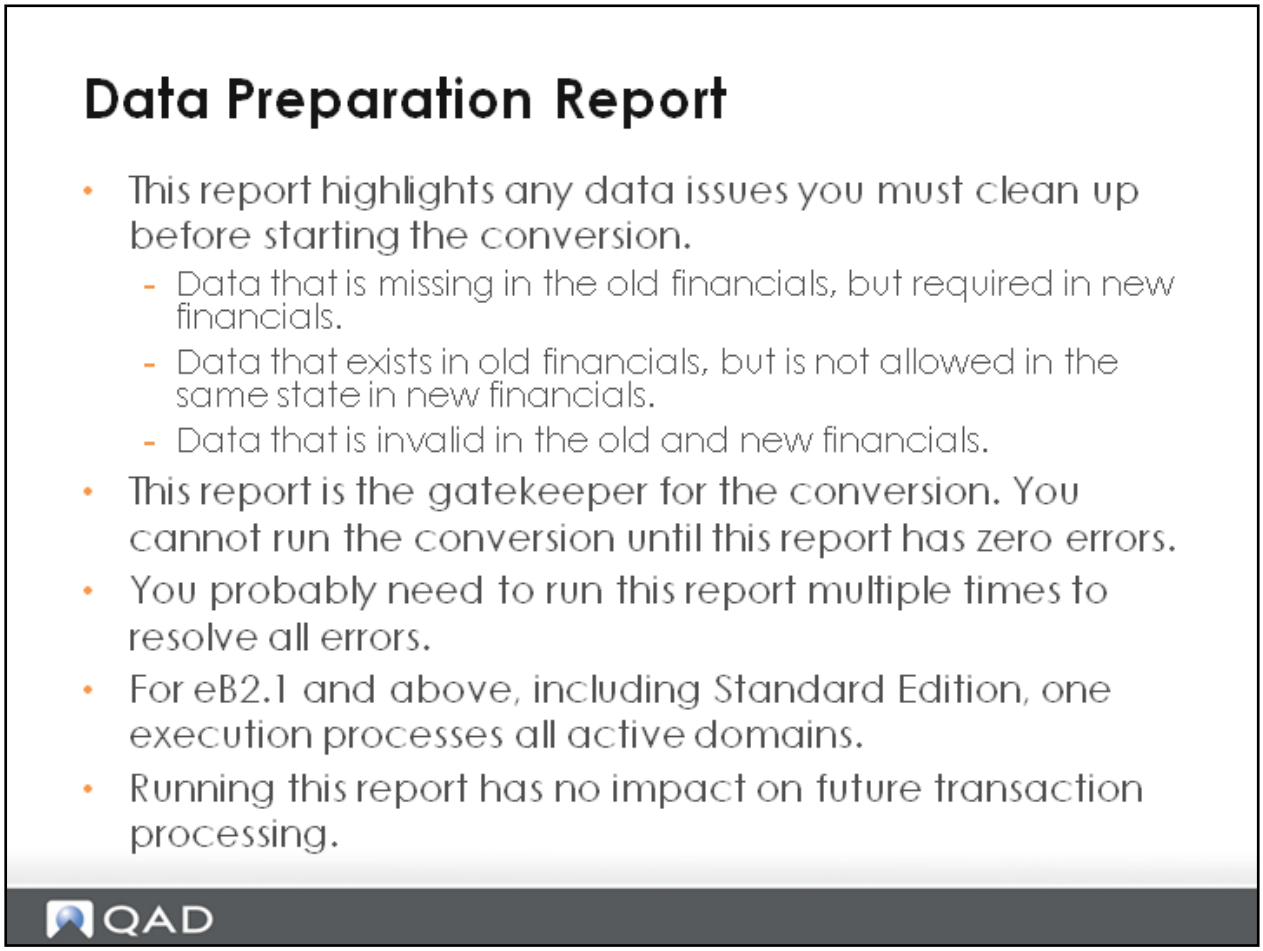
Supplier         Name                          Old Credit Term New Credit Term
---------------- ----------------------------- --------------- ---------------
10074-SU         Consignment III Primary       90              60
3010             Page Inc.                     90              60
5010             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
```

QAD

Pre-conversion Activities



Data Preparation Report



Data Preparation Report

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/92
      Database name: qadadm; DB Version: 10; Connection parameters: -db /dr01/data/rxm/92
      Database name: qadhelp; DB Version: 9; Connection parameters: -db /qad/mfgpro/92bdb


   Total number of errors detected: 677


   Source Domain: "Domain1"


Start of detailed error report for Domain: "Domain1"

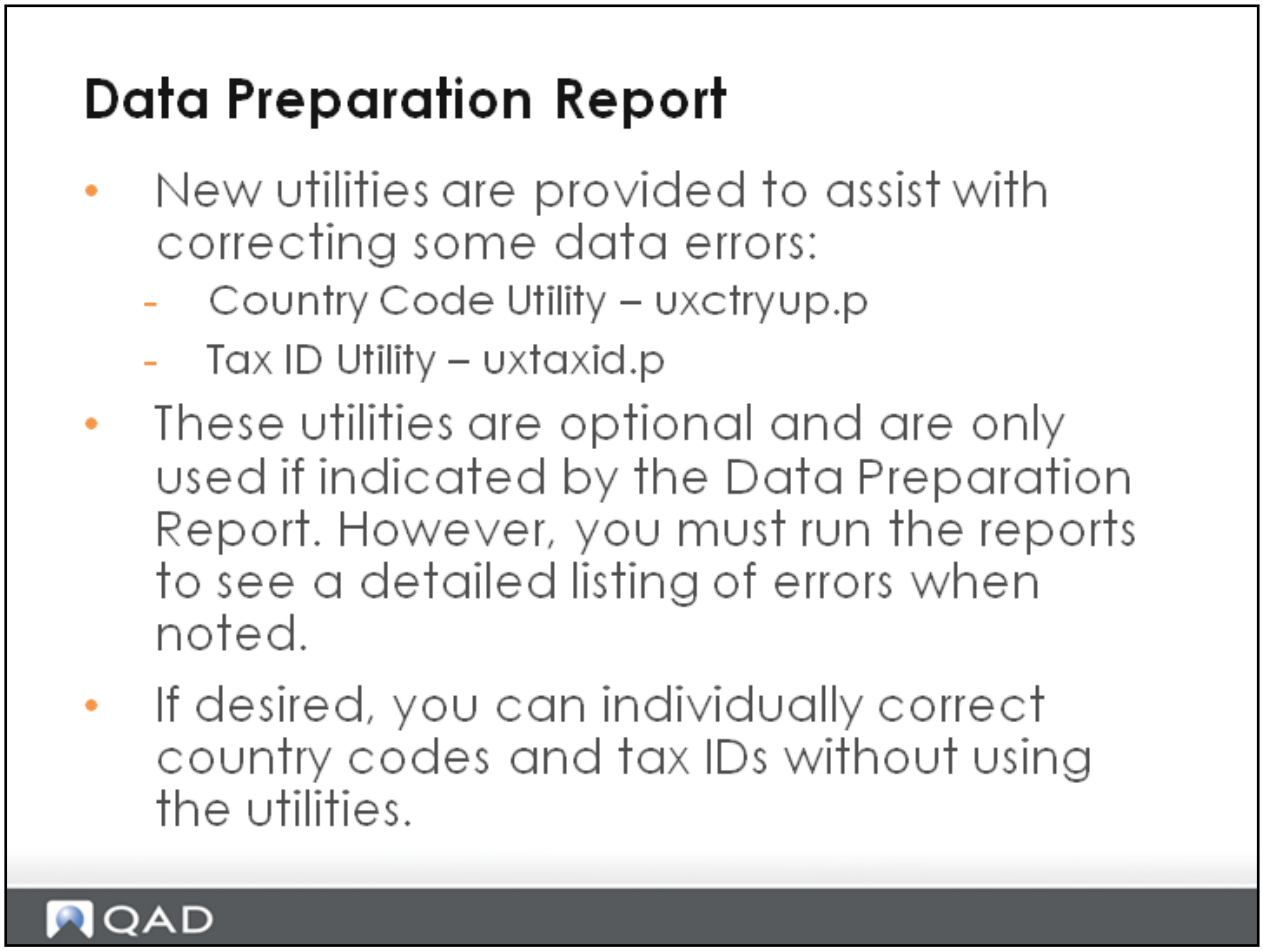
Number of errors detected for Domain "Domain1": 188

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
```

QAD

Data Preparation Report



Account Type Incompatibility Error

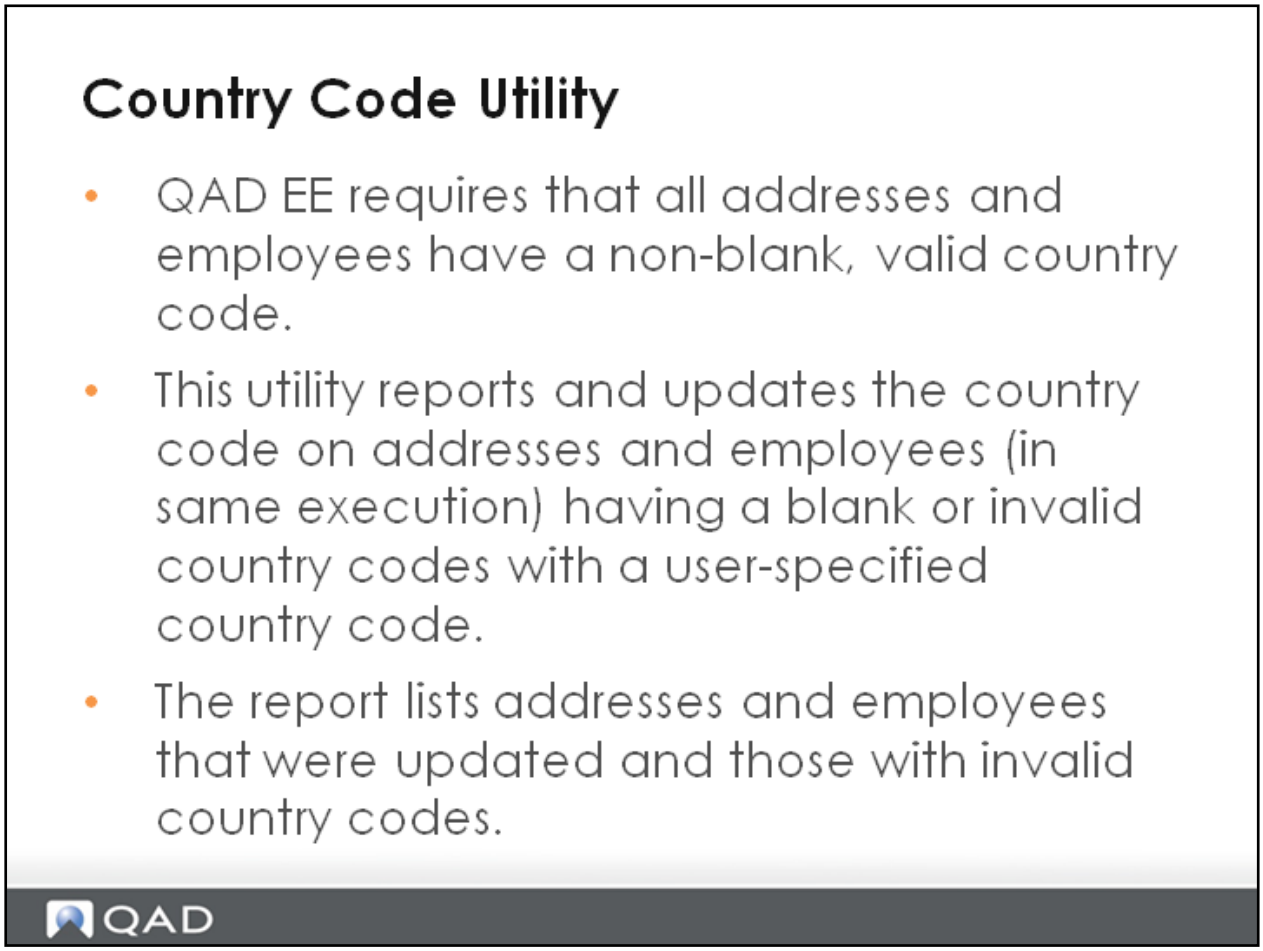
Most errors shown on the Data Preparation Report are self-explanatory. One exception is the Account Type Incompatibility error. In the old Financials, it is possible to define an account in Account Code Maintenance as an Expense type account, but use that account code in static data for non-expense type purposes (for example, in Product Line Maintenance as an Inventory account).

The QAD EE Financials require that accounts used for specific purposes have the appropriate account type definition based on the financial statement where they appear. Account codes used in database fields for static data that are associated with the Balance Sheet must be defined as type (ac_type) A(sset) or L(iability); not I(ncome) or E(xpense). Similarly, Account codes used in database fields for static data that are associated with the Income Statement must be defined as type I(ncome) or E(xpense); not A(sset) or L(iability).

Unposted GL Transactions Error

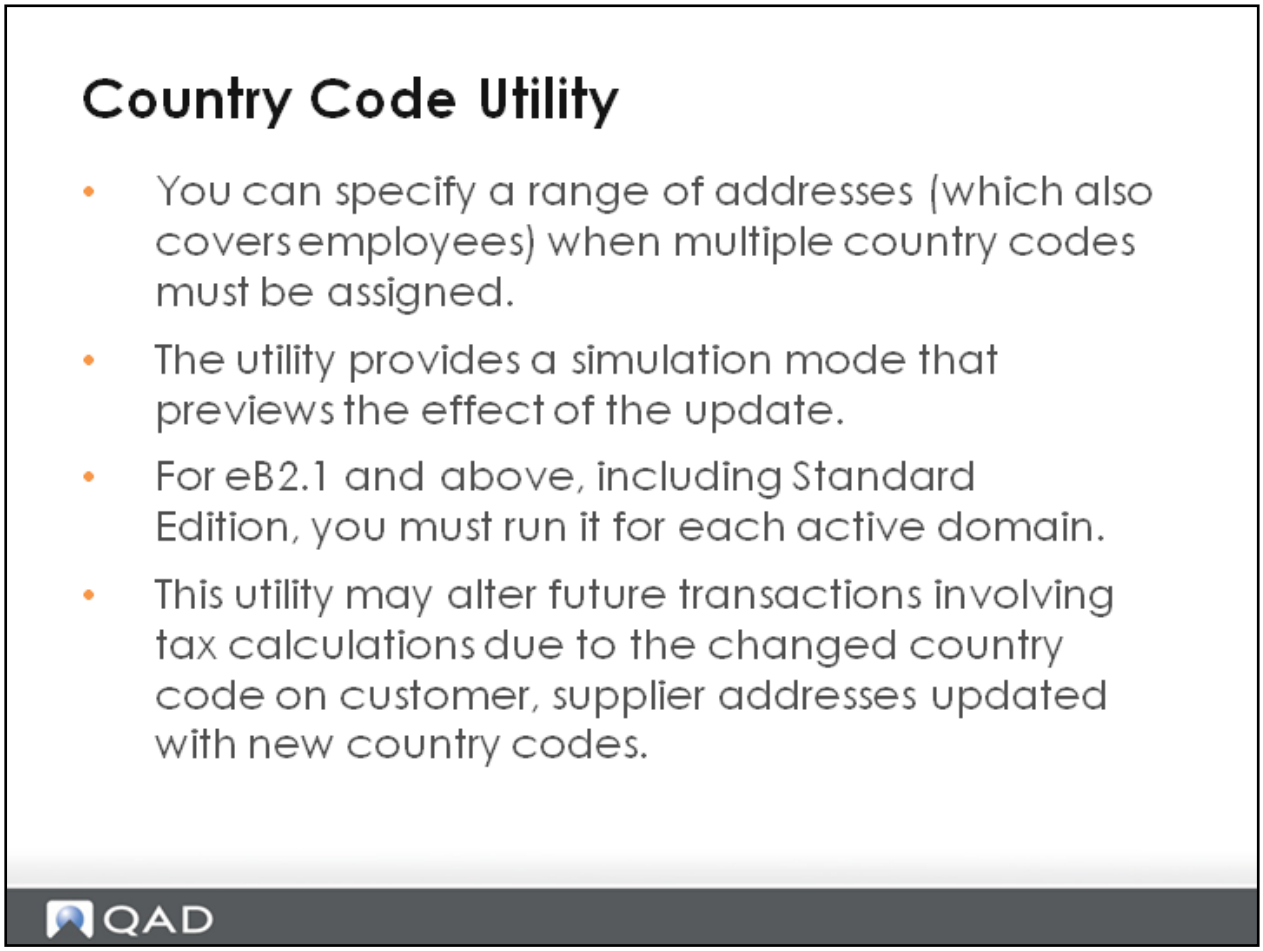
The Data Preparation Report checks for any unposted GL transactions, but counting glt_det records. It is possible that some of these records may be for a zero transaction amount and therefore will not show up on the Unposted Transactions Register (25.13.14 – glutrrp.p). You can delete these zero-amount records using the GL Transaction Delete/Archive (36.23.2 – mgmgrp01.p).

Country Code Utility



To see addresses and employees with invalid country codes, leave Country Code blank and Update = No.

Country Code Utility



Country Code Utility

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

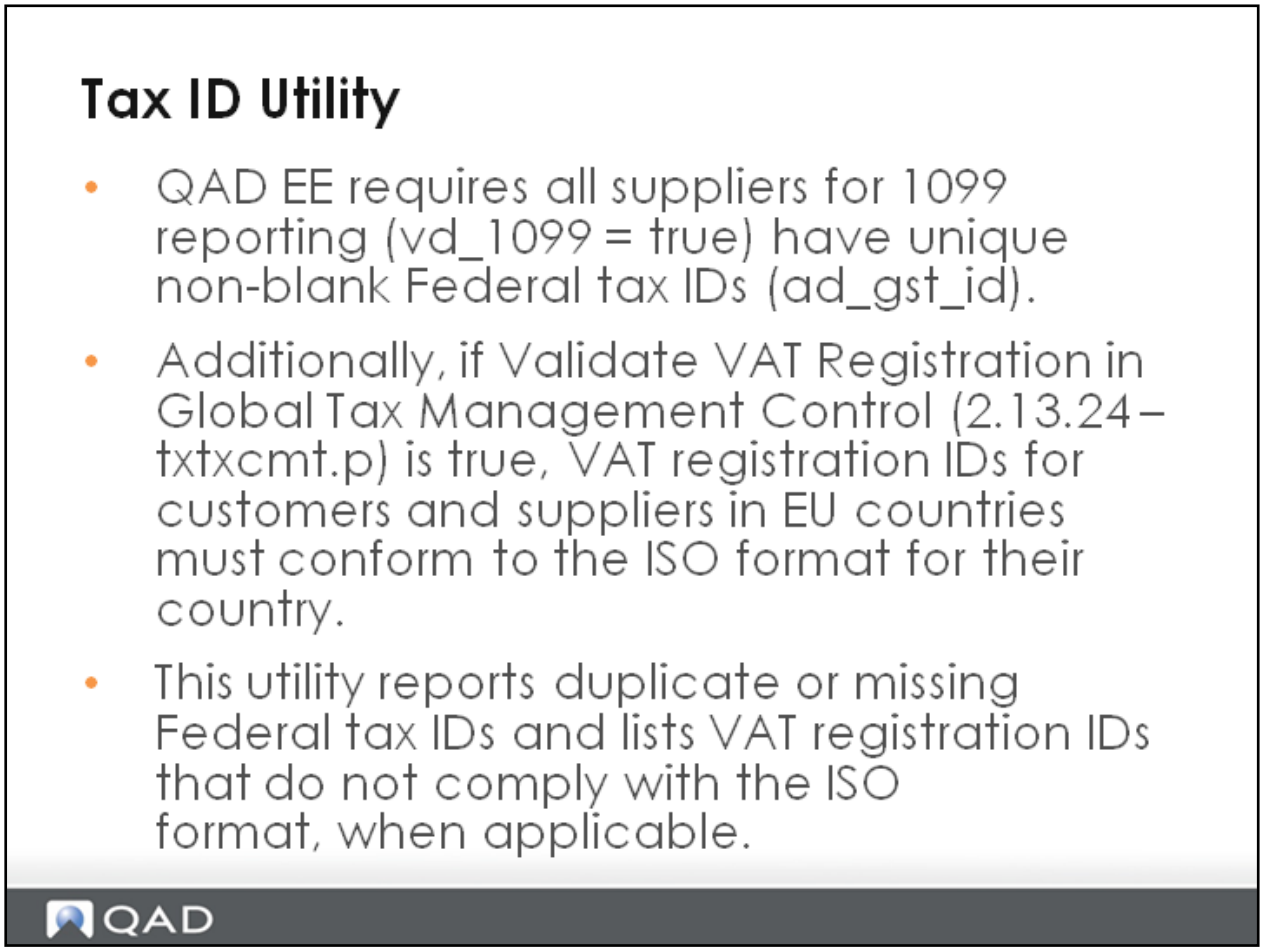
Domain: Domain1

 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

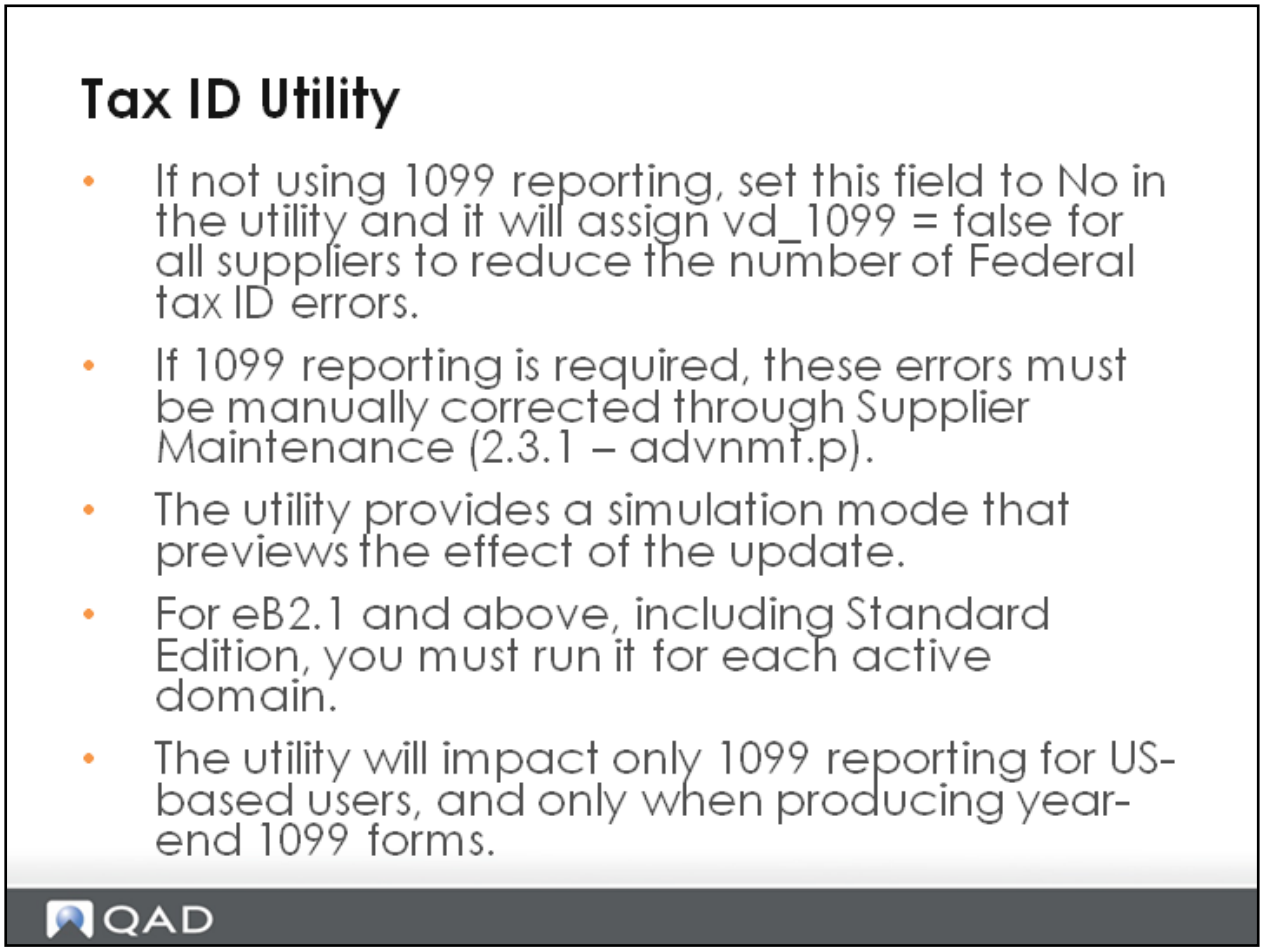

Employee  First Name       Last Name       Old Country Code New Country Code
--------- ---------------- --------------- ---------------- ----------------
2550                                                        cn
7000      Ed               Wright          EL               cn
8000      Earl      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

Tax ID Utility



You must manually correct all Federal tax ID errors when using 1099 reporting and all VAT registration ID errors.

Tax ID Utility



Tax ID Utility

Tax ID Utility

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

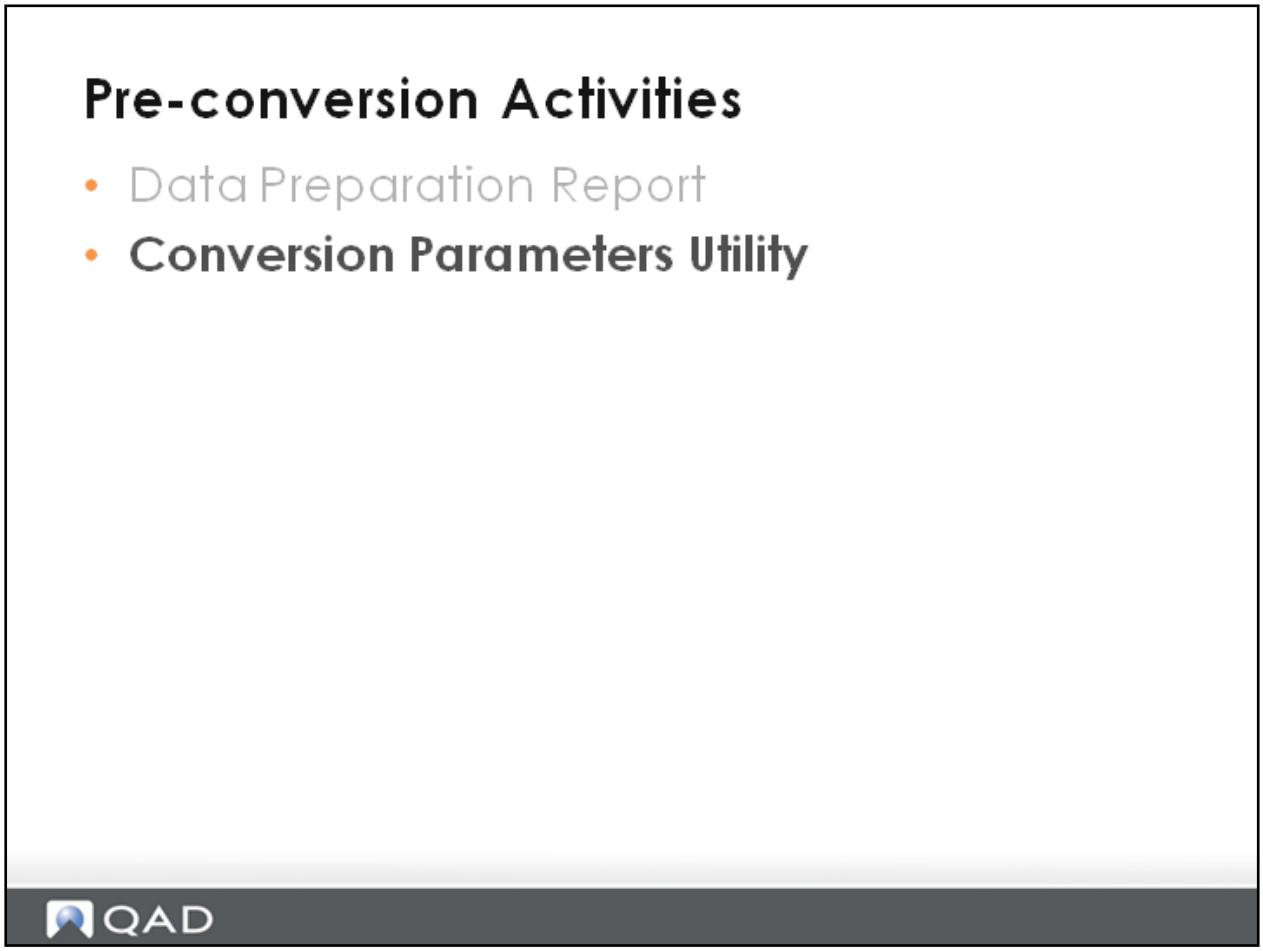
```
uxtaxid                                  Tax ID Utility                                  Date:     05/21/08
Page     1                                                                               Time:     13:21:05
                                  * * * * * * * * * * S I M U L A T I O N * * * *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


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

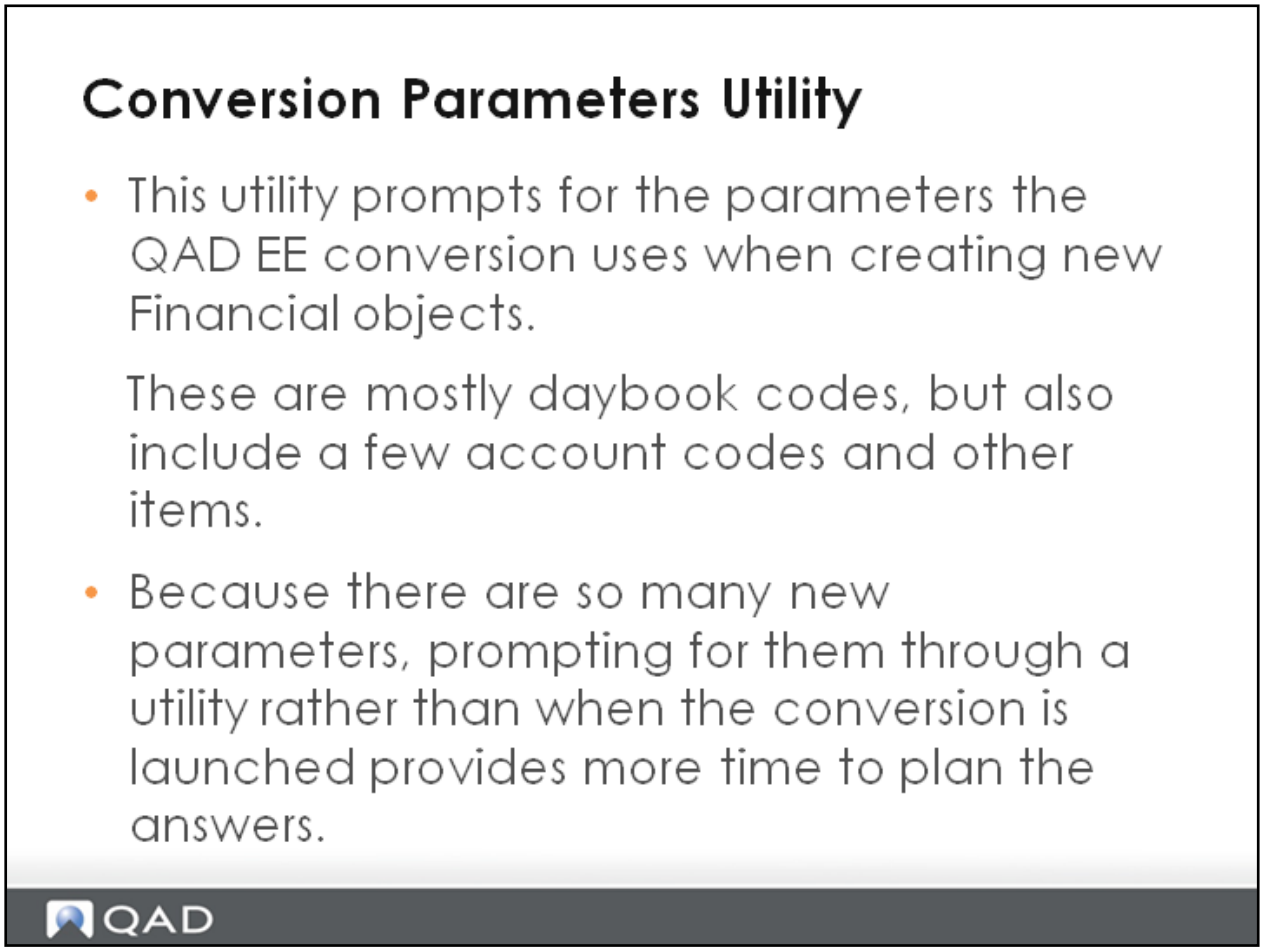
    Federal Tax ID Errors: 4
              Duplicates: 2
              Blank or ?: 2

  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
```

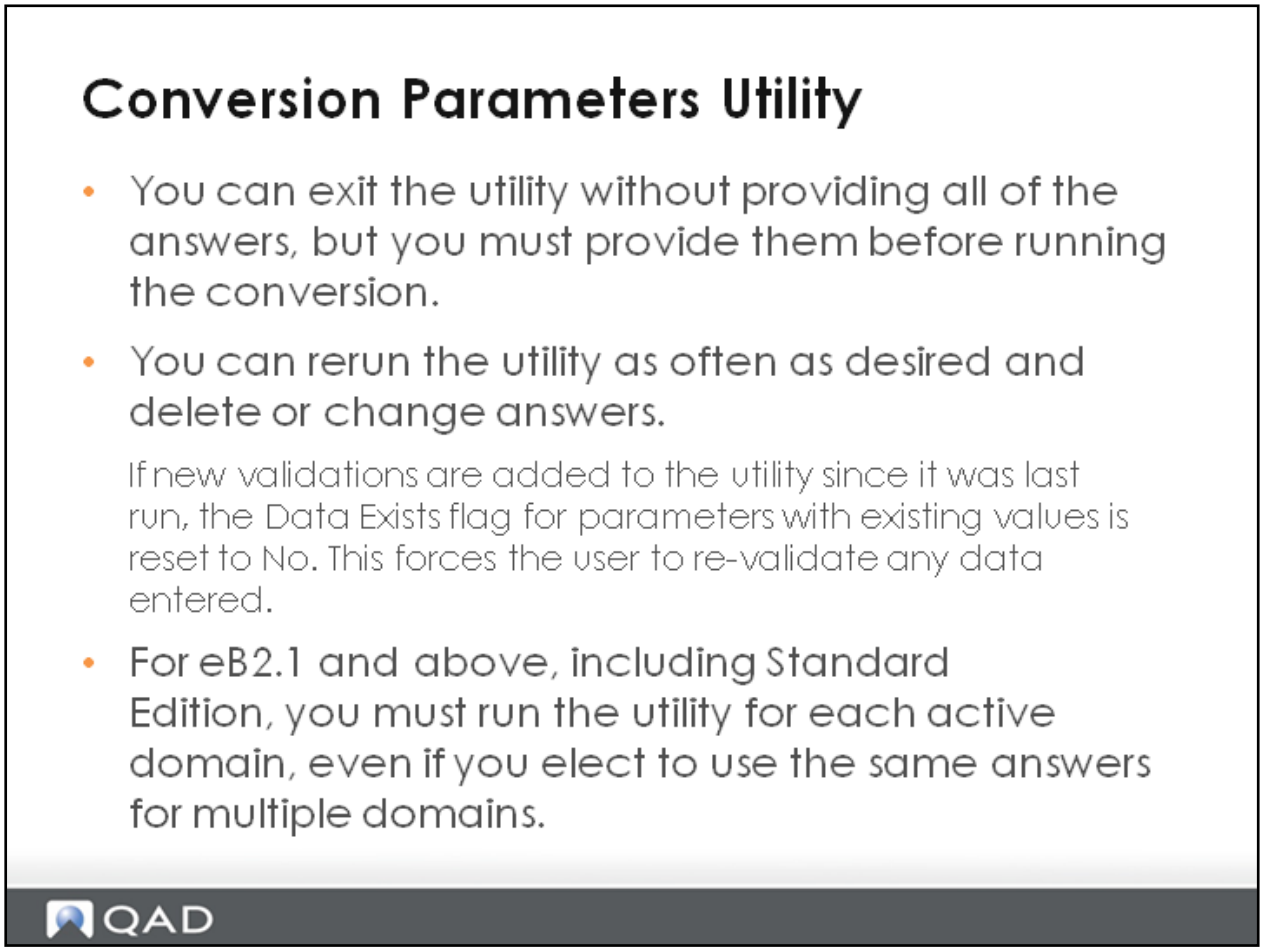
Pre-conversion Activities



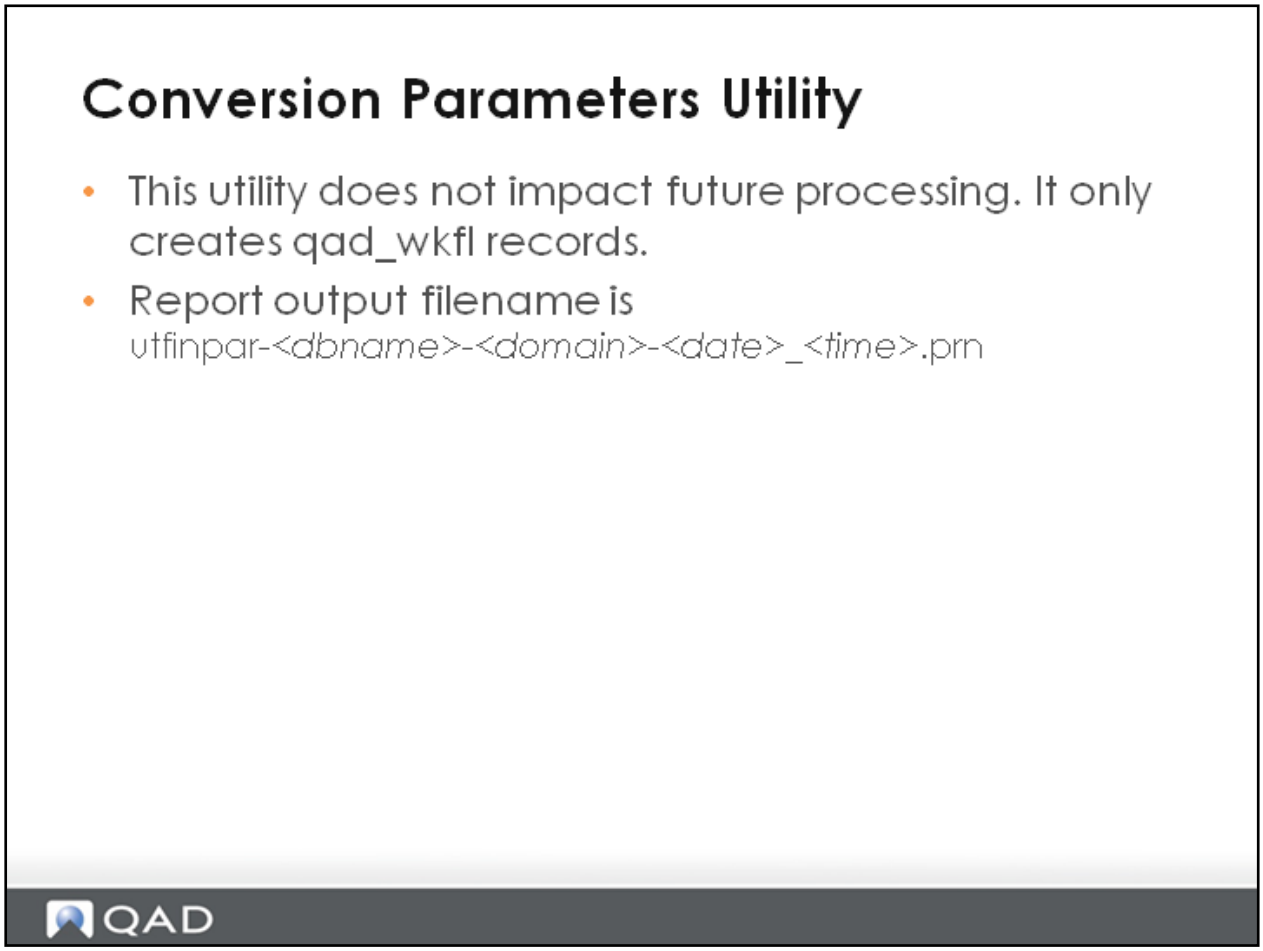
Conversion Parameters Utility



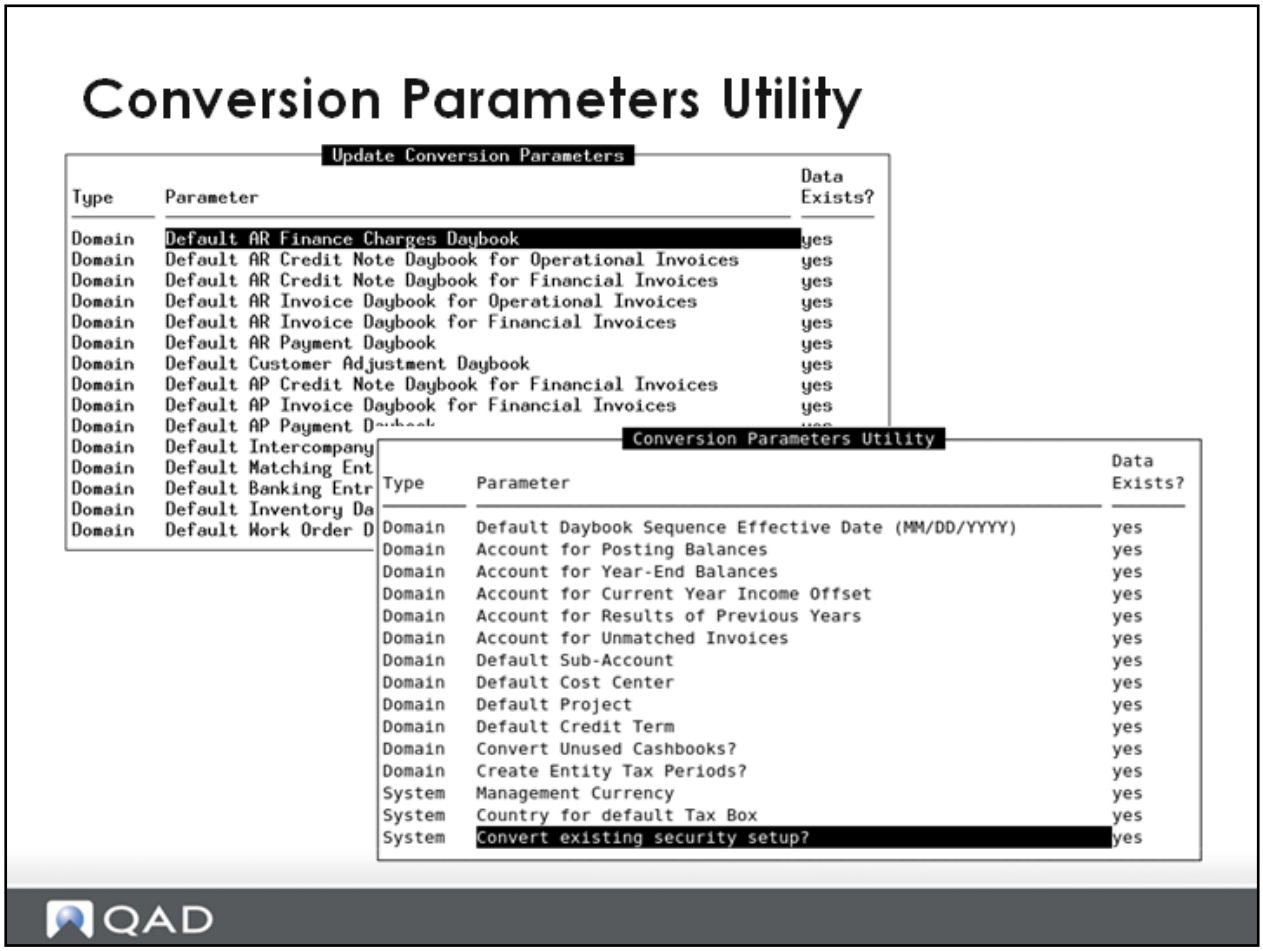
Conversion Parameters Utility



Conversion Parameters Utility



Conversion Parameters Utility

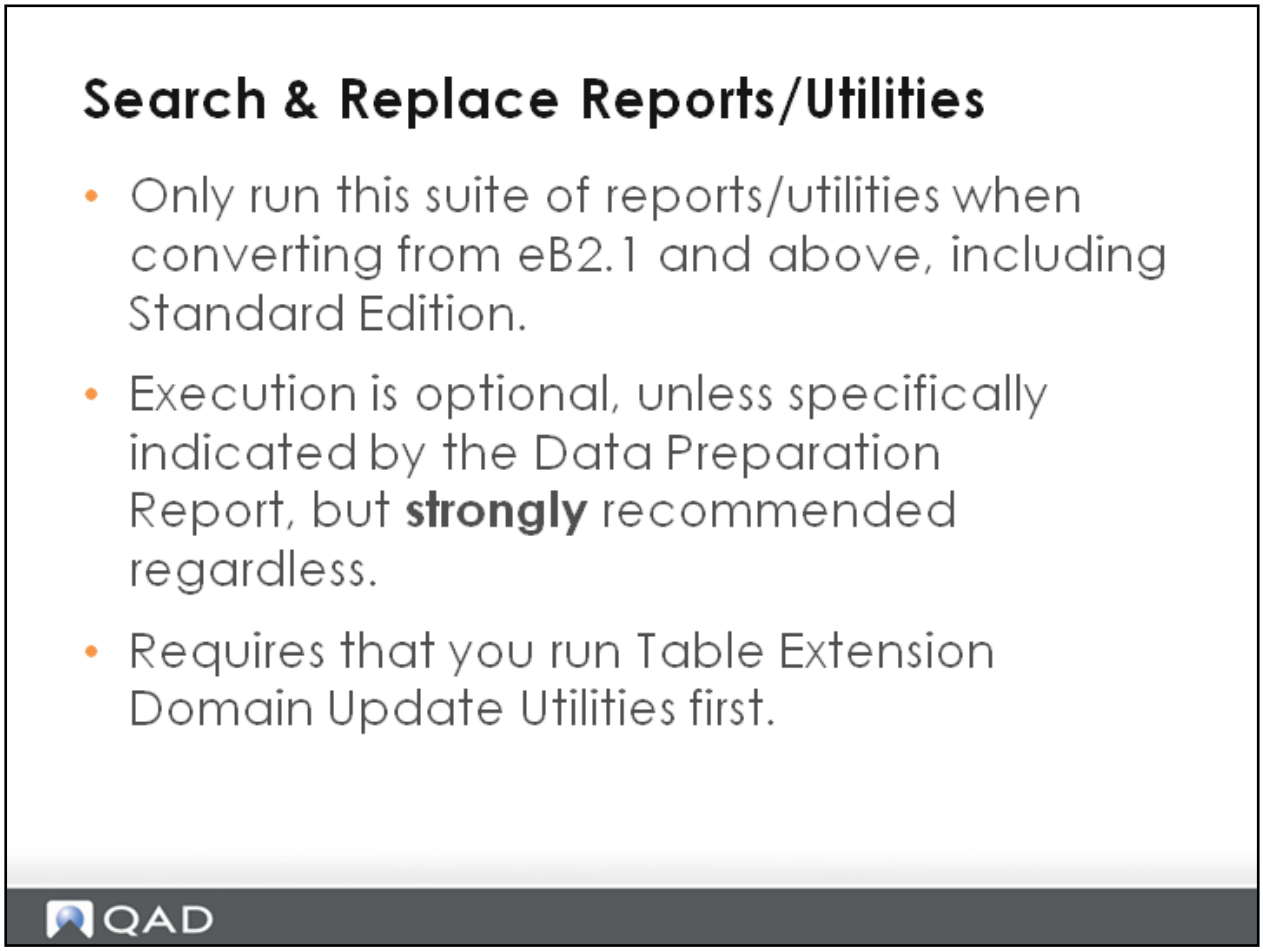


The Data Exists column indicates whether you have provided input for this parameter.

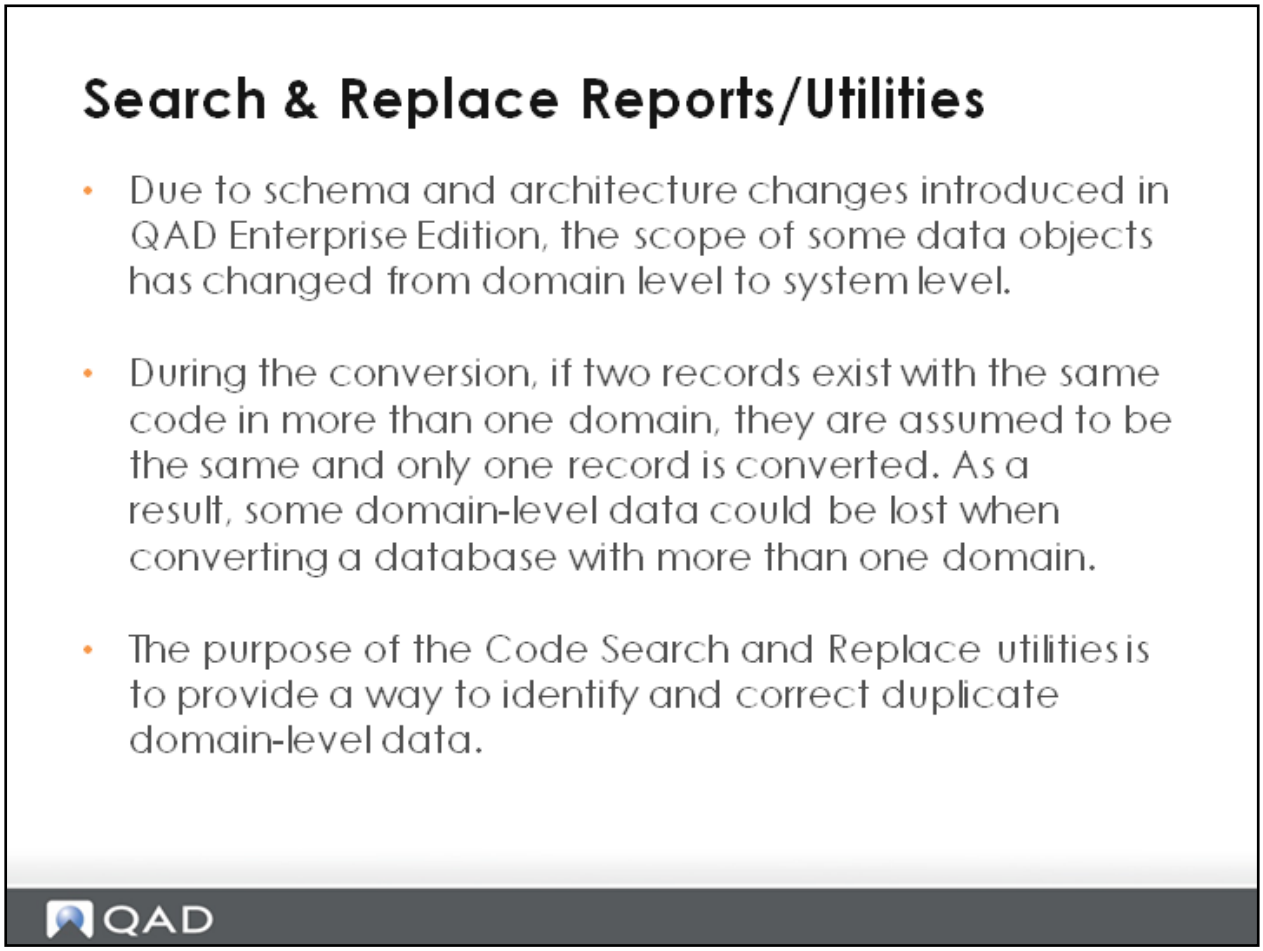
Pre-conversion Activities



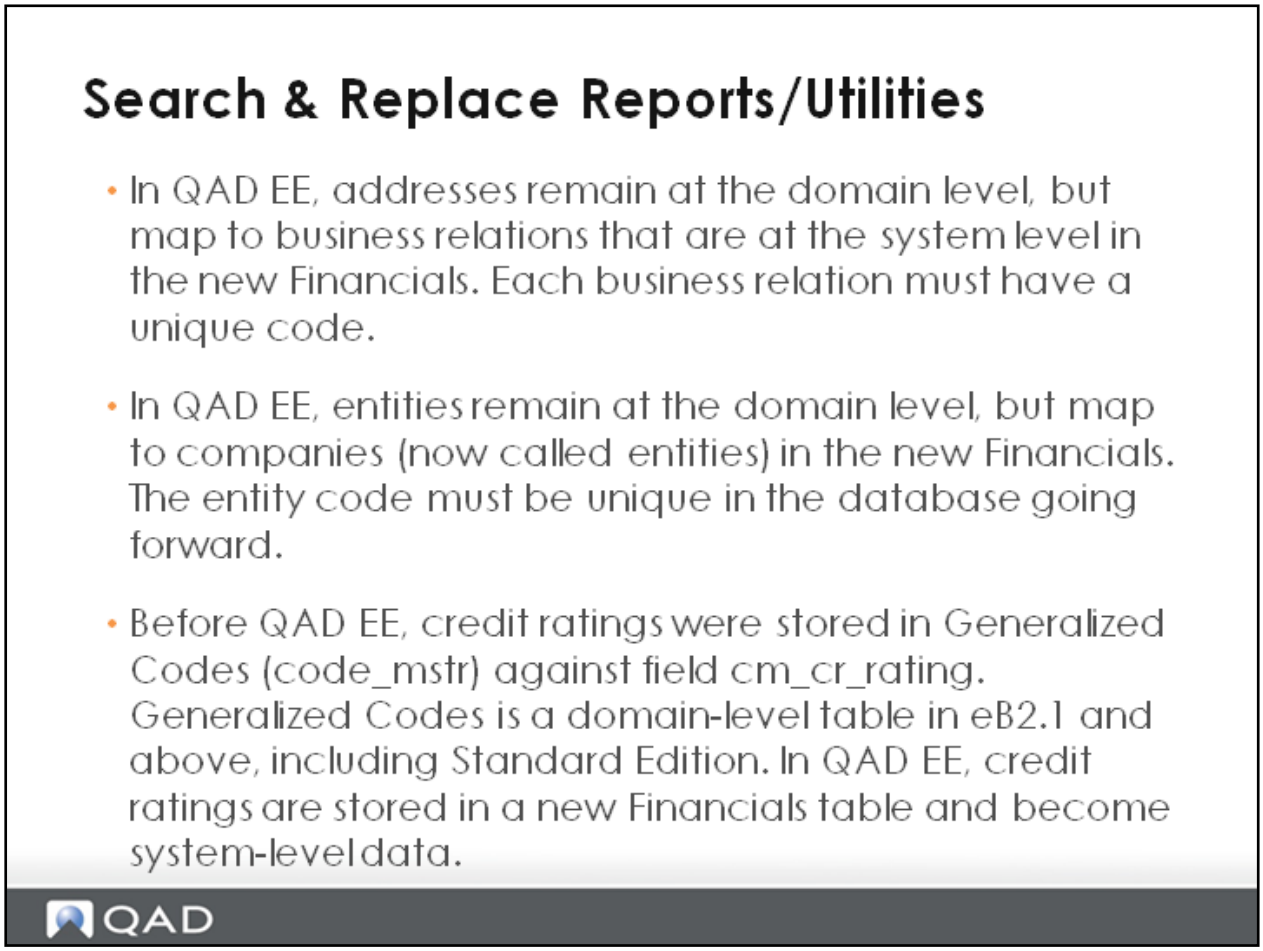
Search & Replace Reports/Utilities



Search & Replace Reports/Utilities

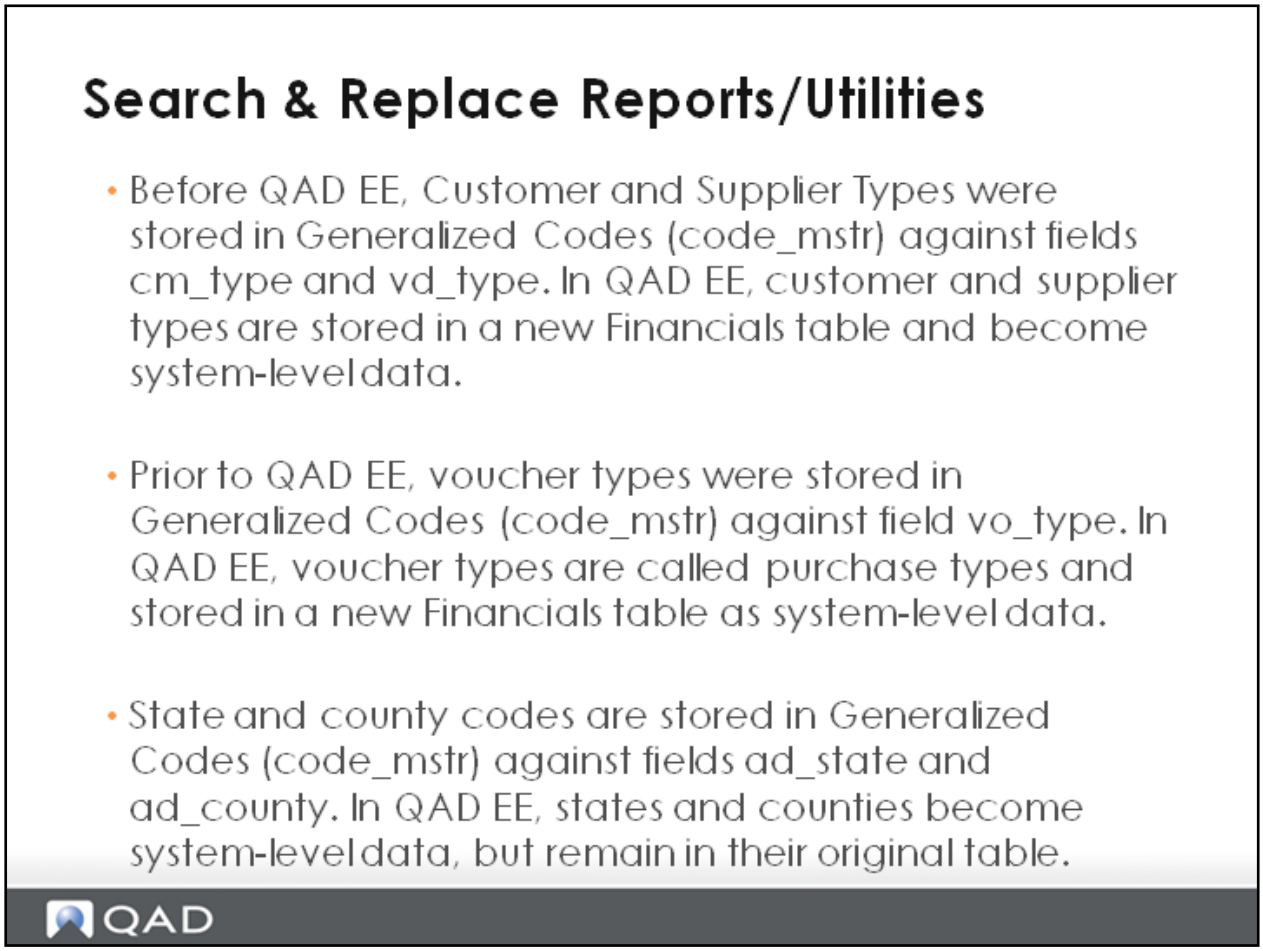


Search & Replace Reports/Utilities

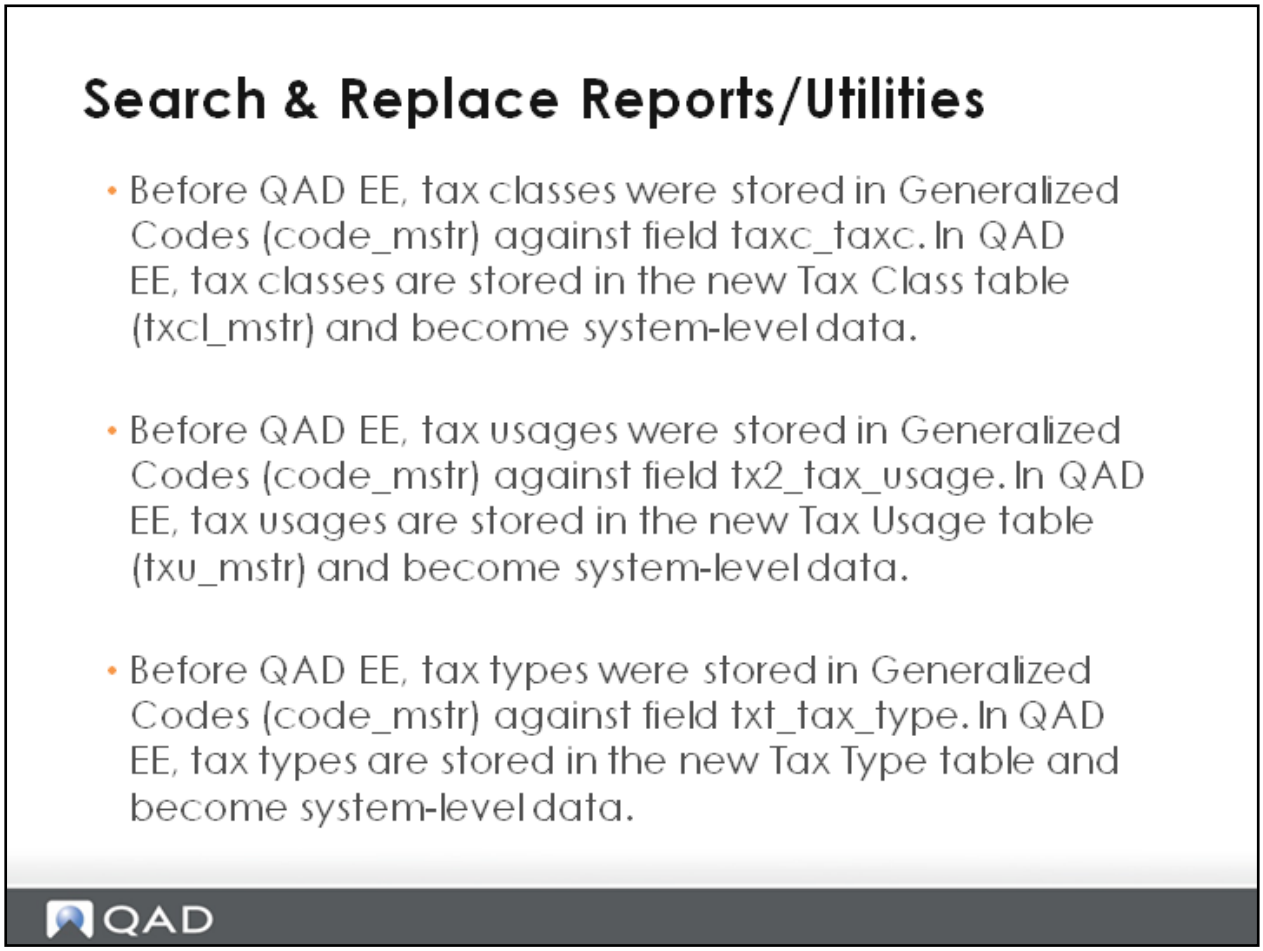


The next five slides describe some of these data changes. You can review this information at your leisure (skip to slide 61).

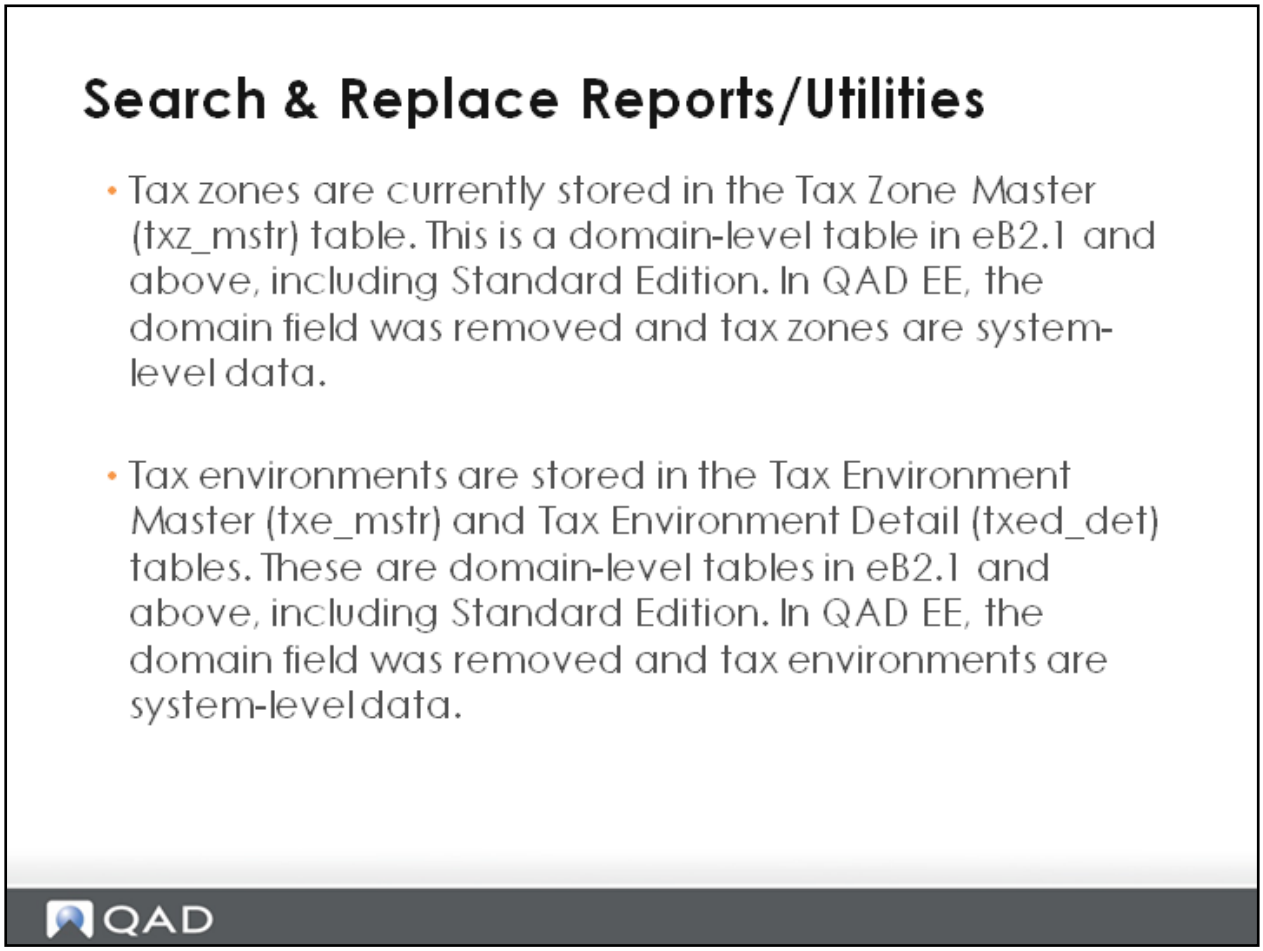
Search & Replace Reports/Utilities



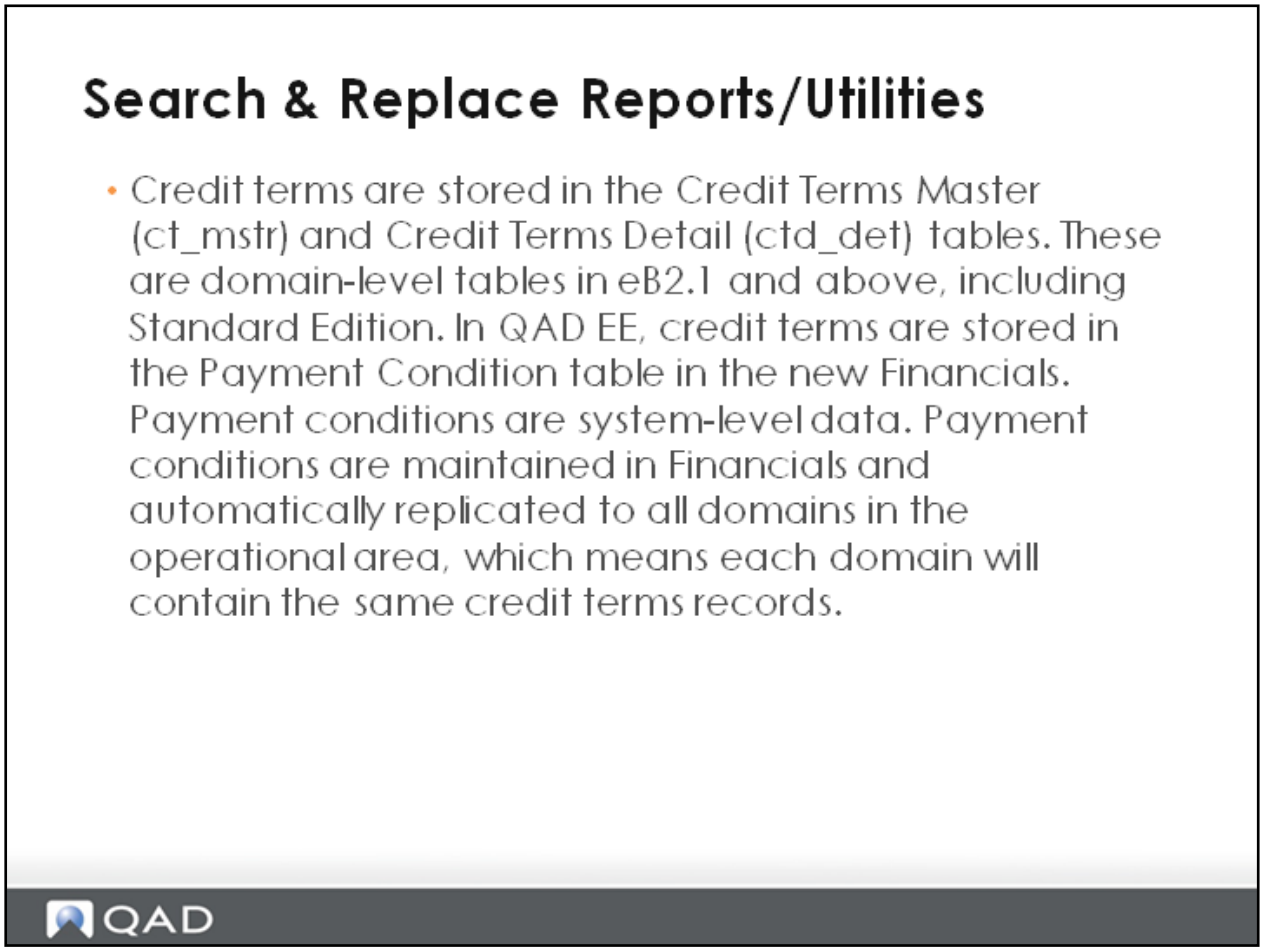
Search & Replace Reports/Utilities



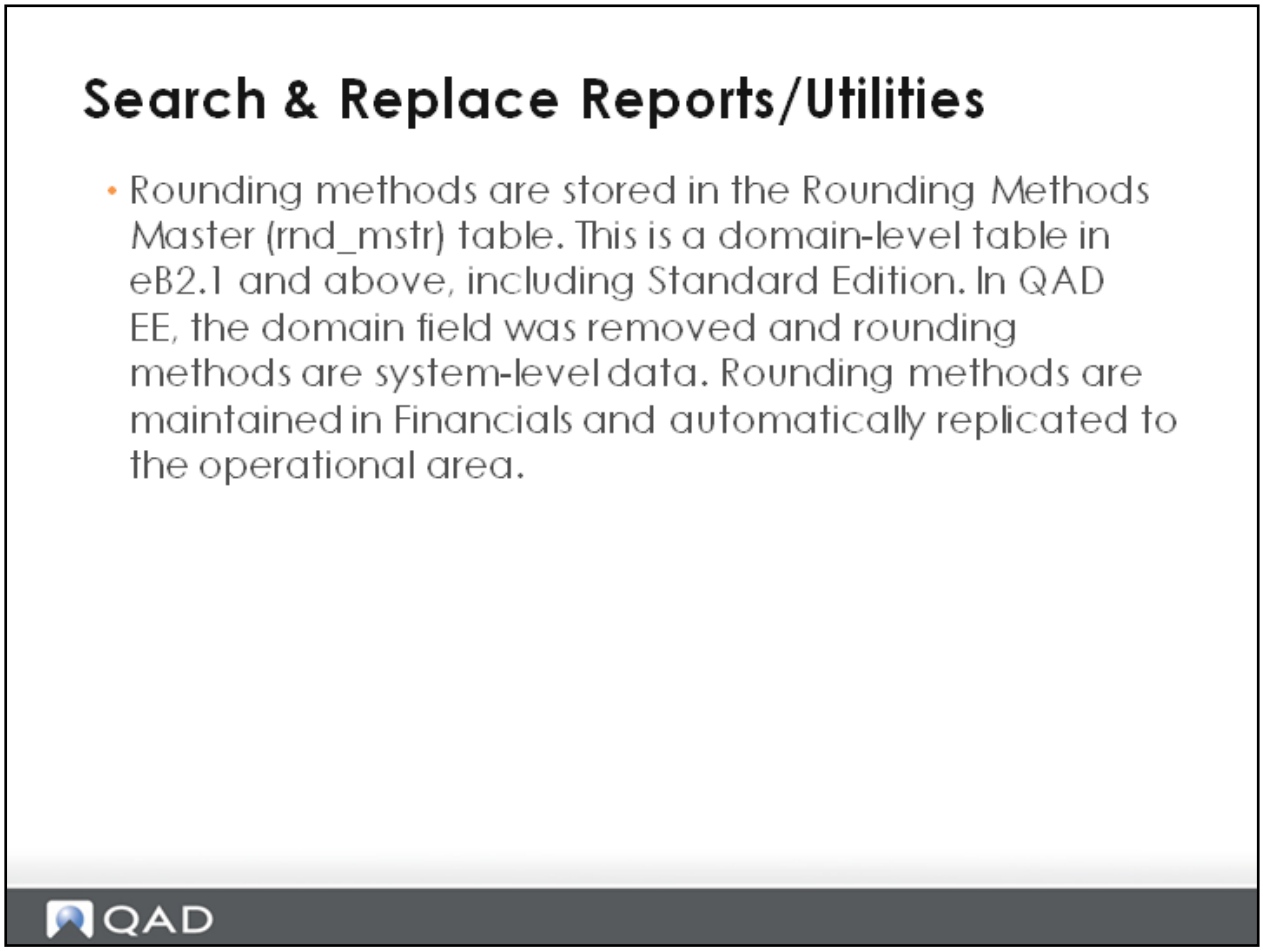
Search & Replace Reports/Utilities



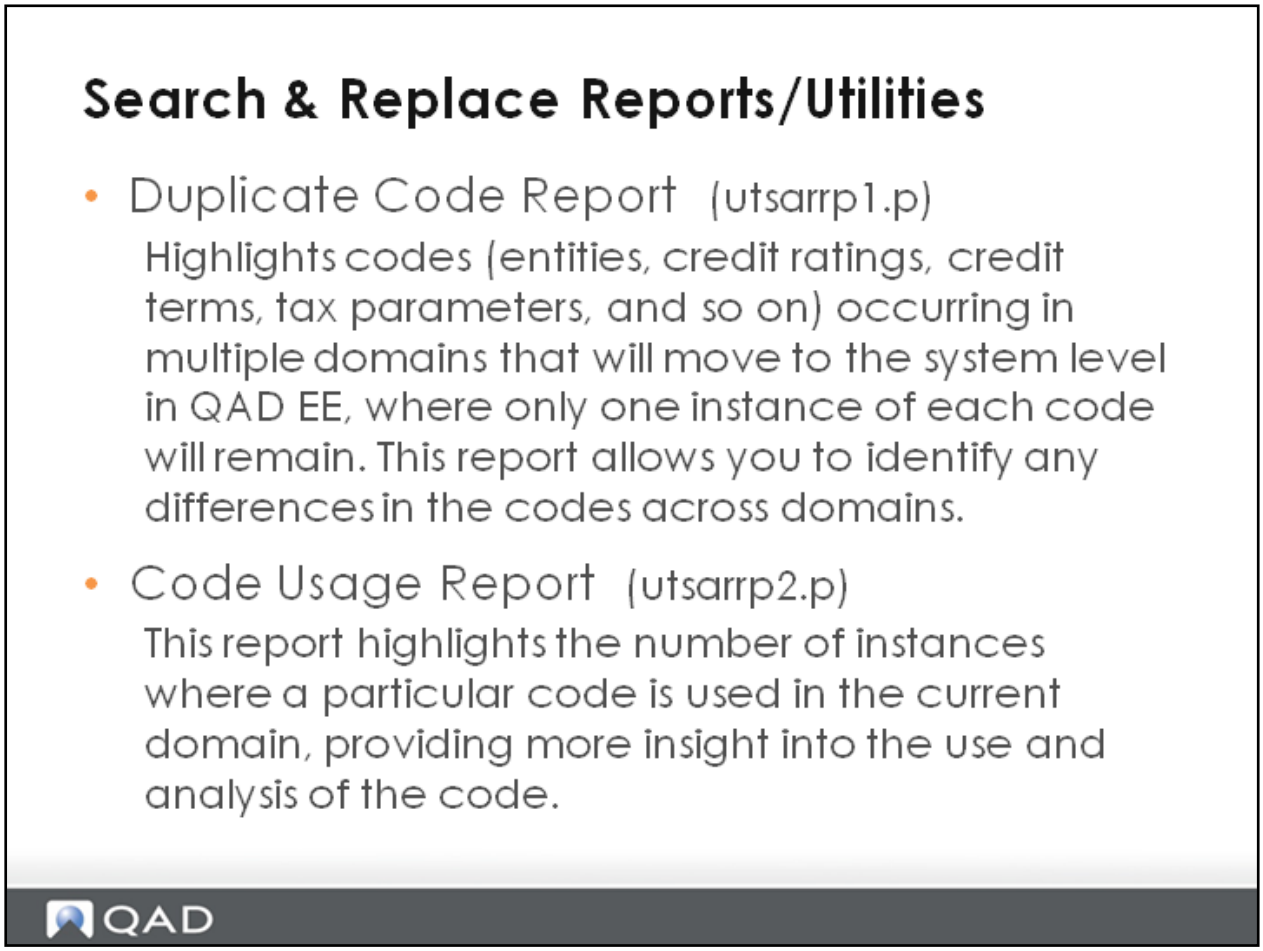
Search & Replace Reports/Utilities



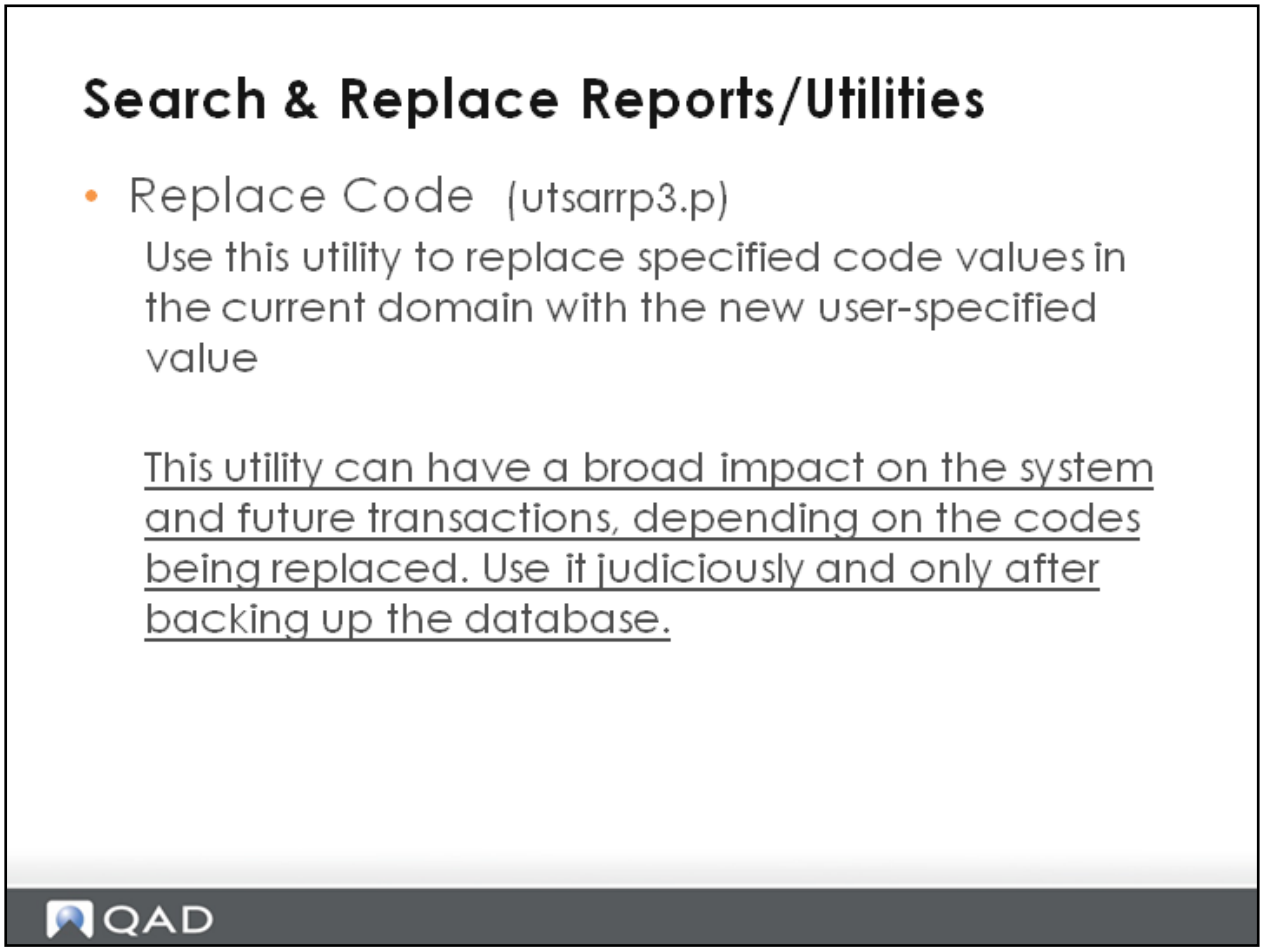
Search & Replace Reports/Utilities



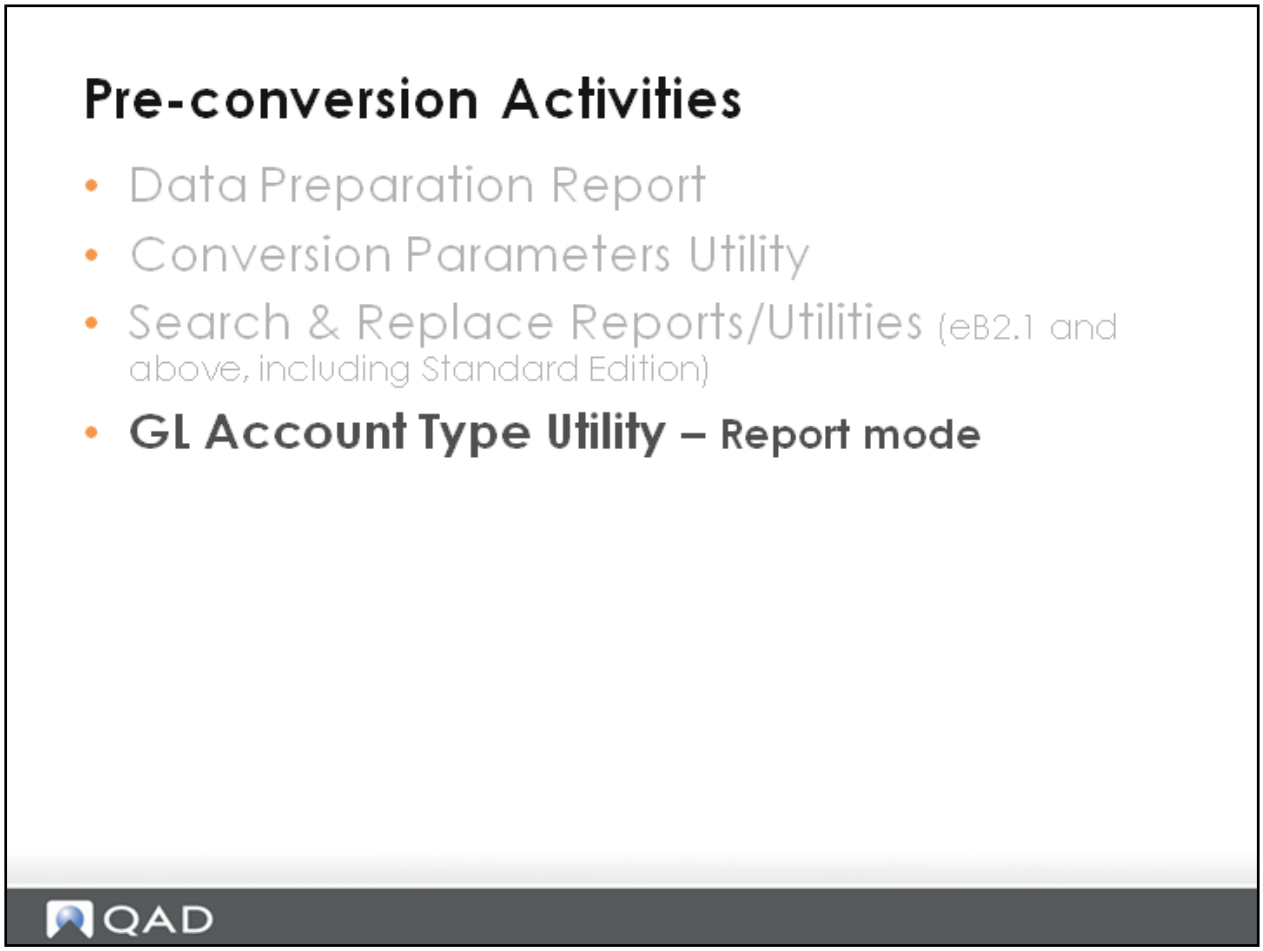
Search & Replace Reports/Utilities



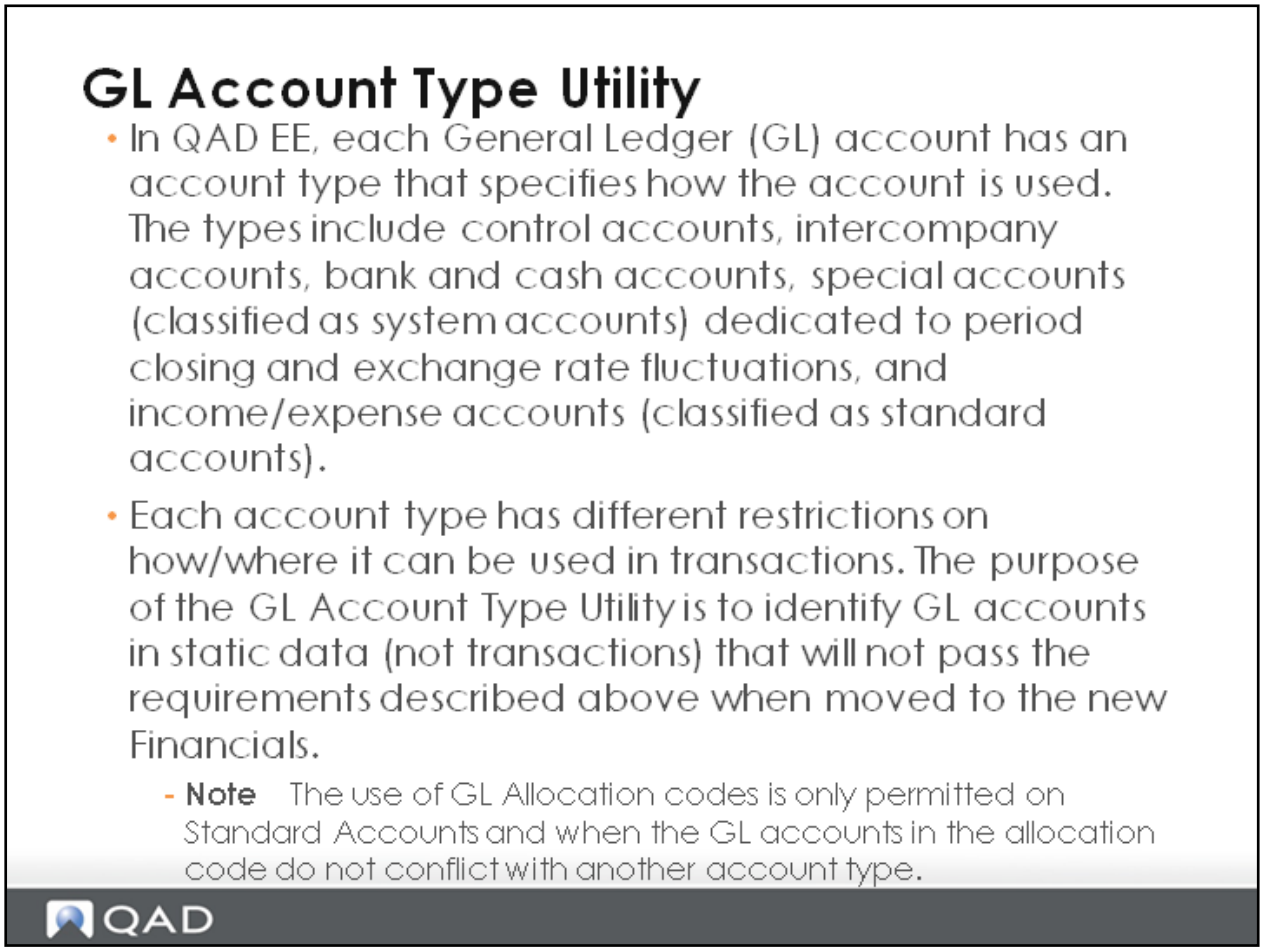
Search & Replace Reports/Utilities



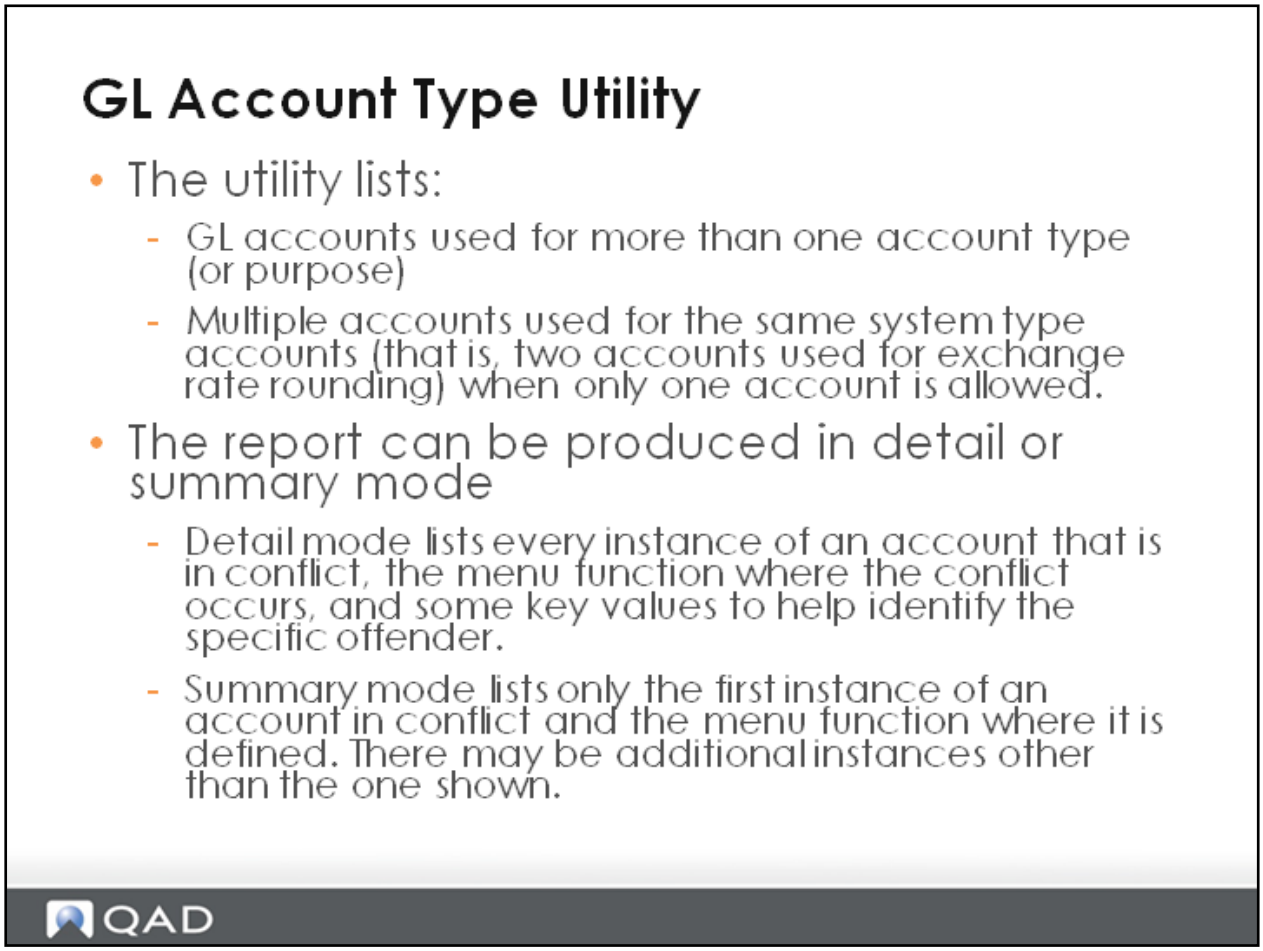
Pre-conversion Activities



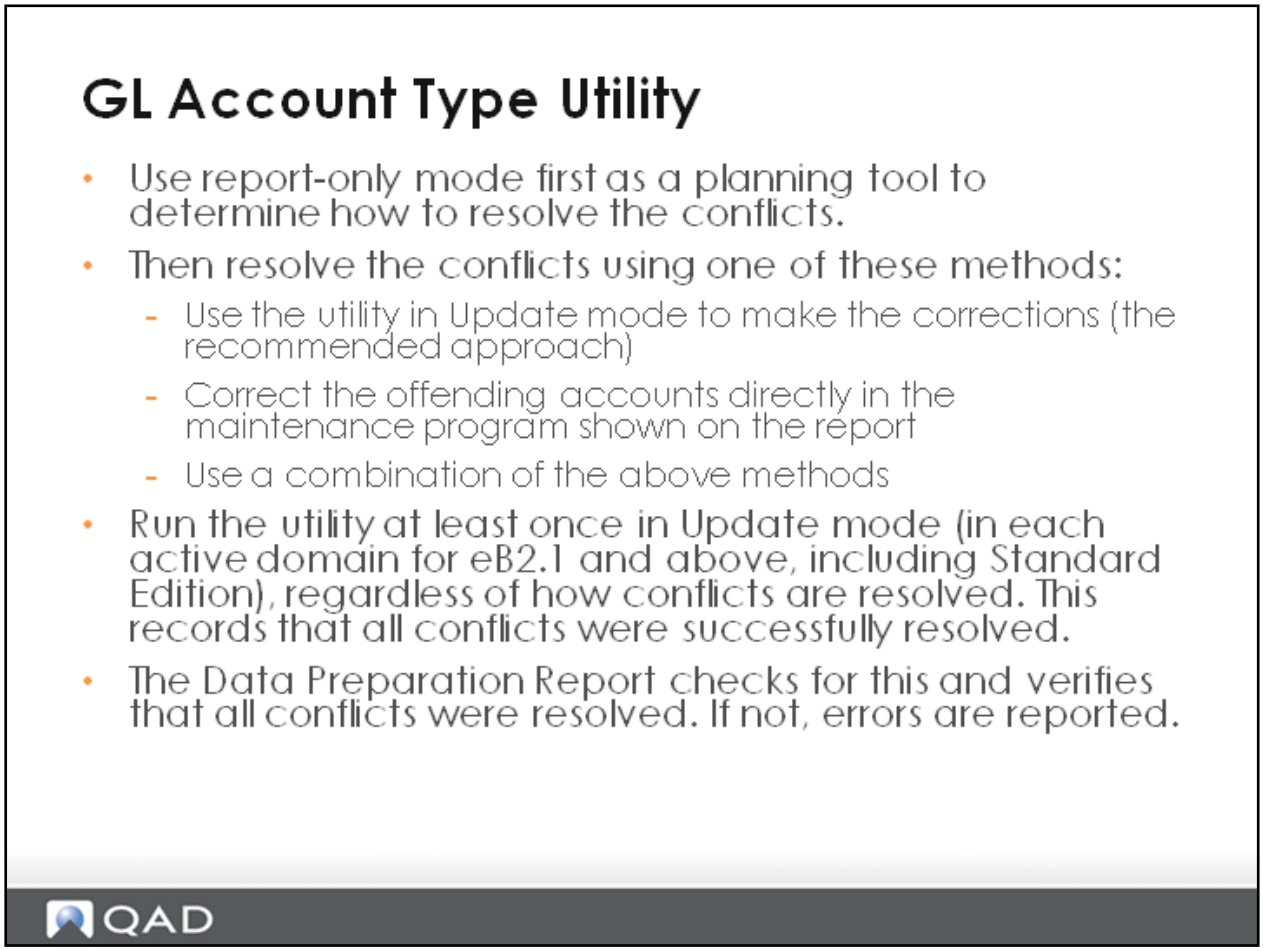
GL Account Type Utility



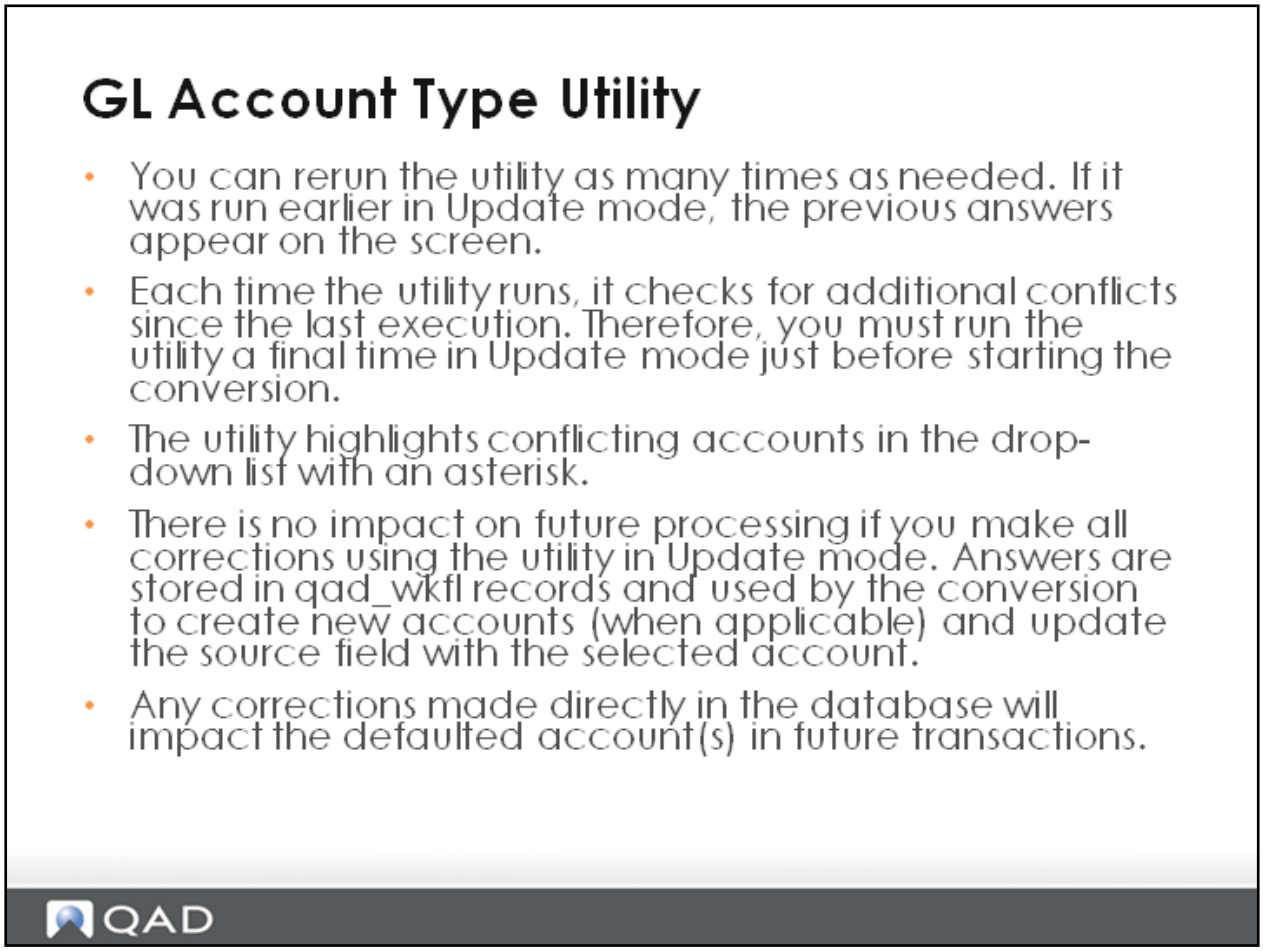
GL Account Type Utility



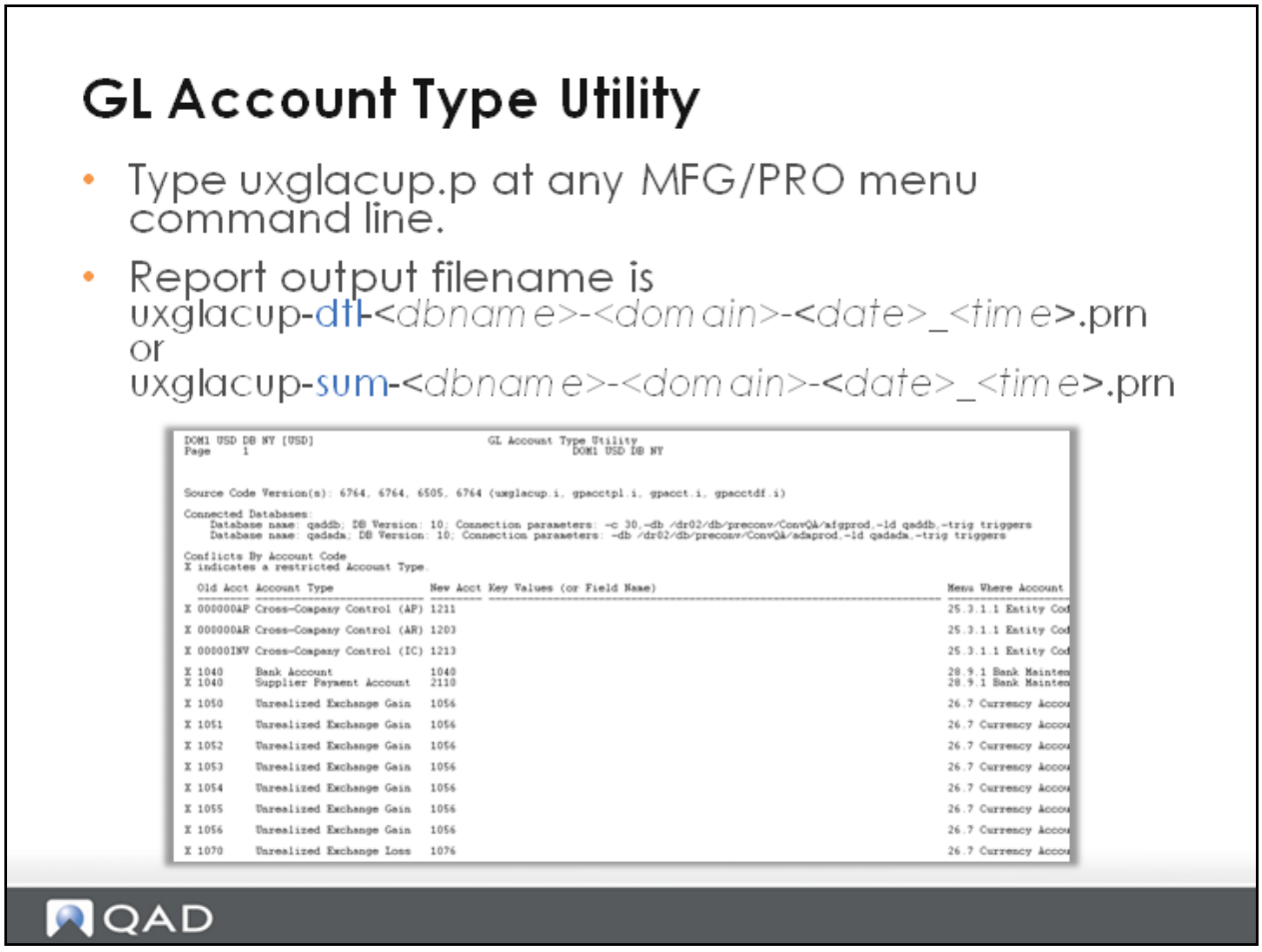
GL Account Type Utility



GL Account Type Utility



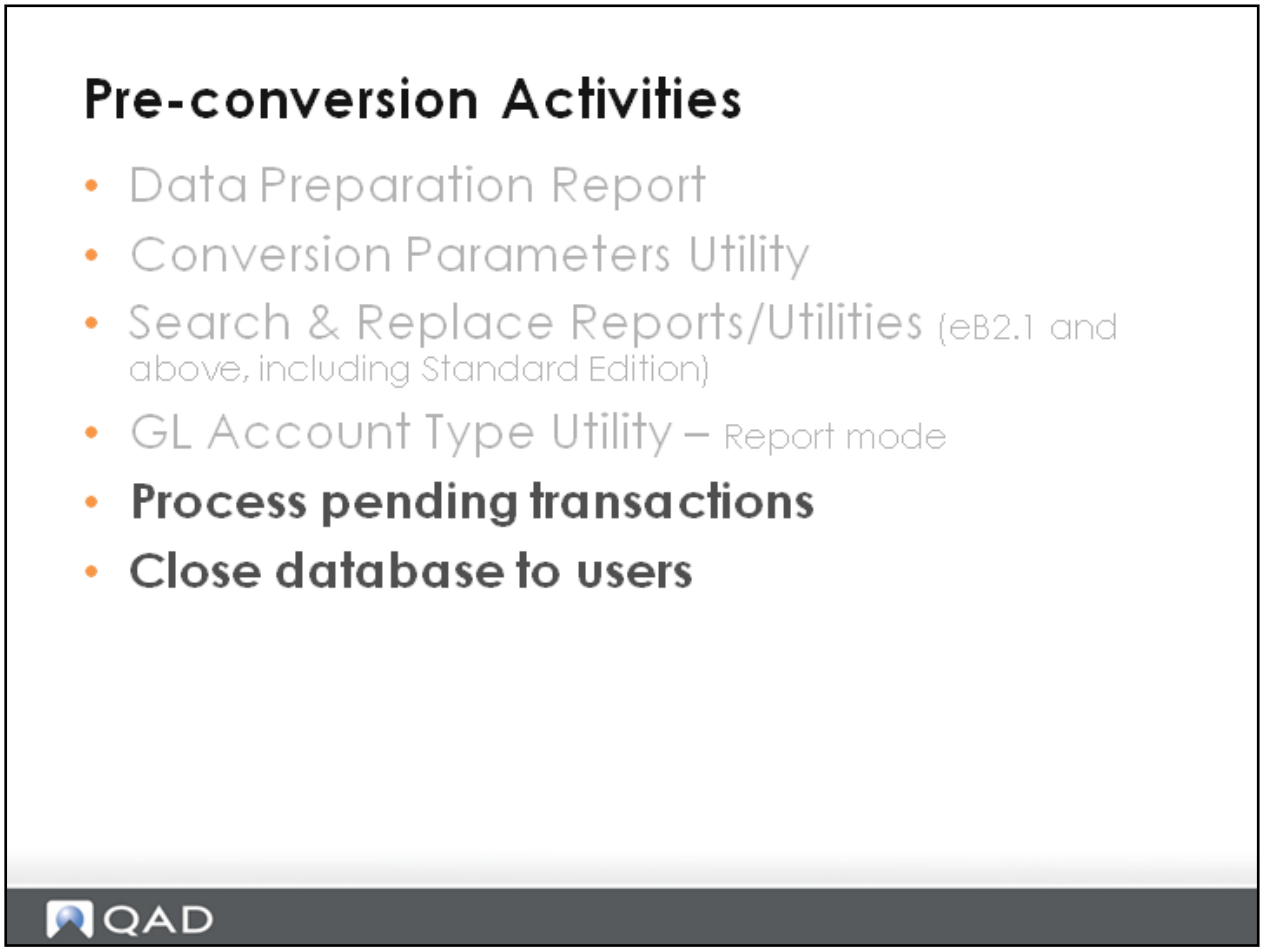
GL Account Type Utility



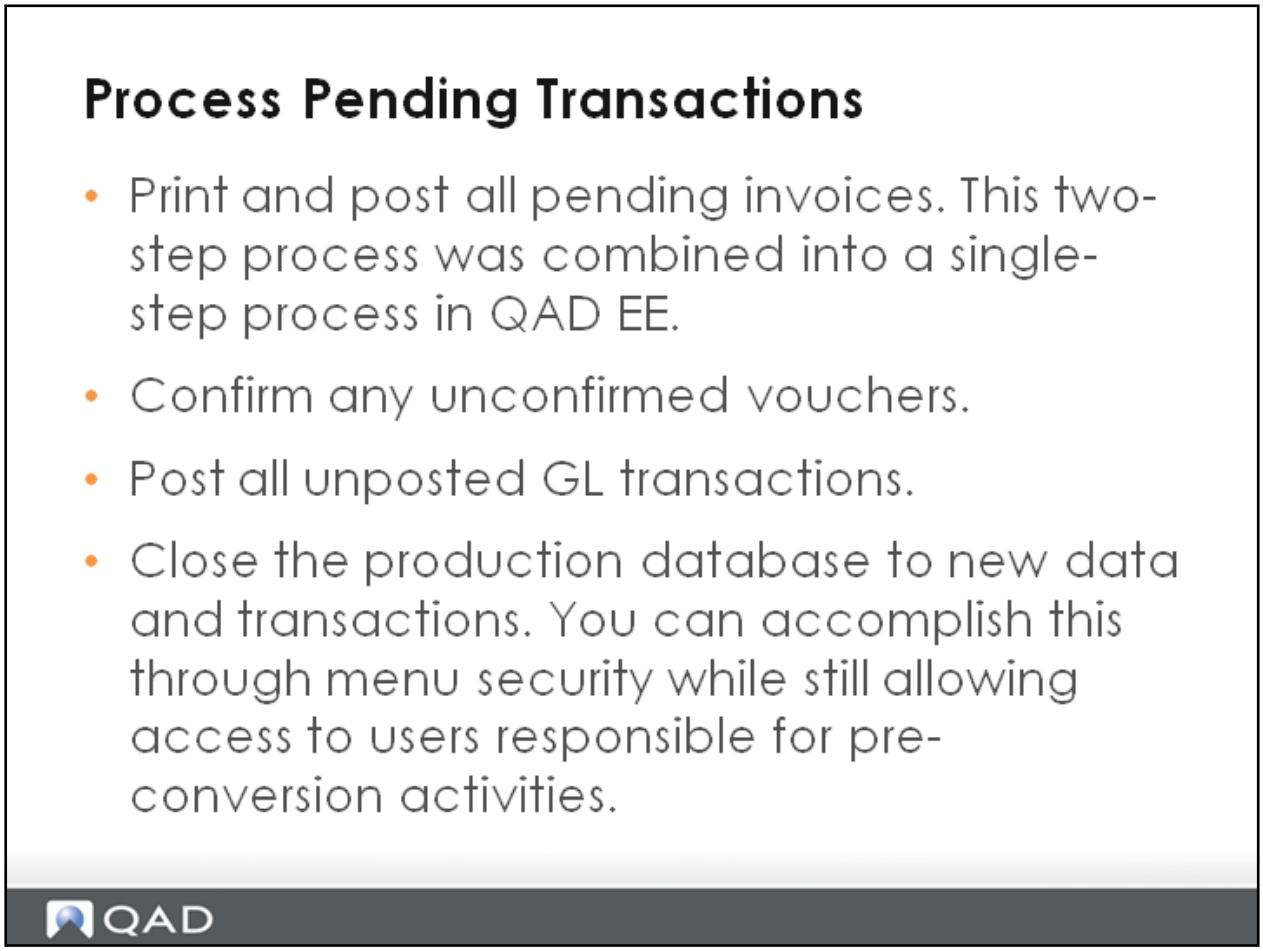
Using account 1040 in the report shown as an example:

- The instances with the asterisk must have a unique account code separate from the others.
- It is not necessary to change each instance of account 1040 to a new account.
- Nor is it necessary to change every instance of account 1040 with an asterisk to a new account.
- The objective is that when the conflicts for 1040 are resolved, all three of these instances will have different accounts. Any one of them may retain the original account 1040 as long as neither of the other two is assigned account 1040.

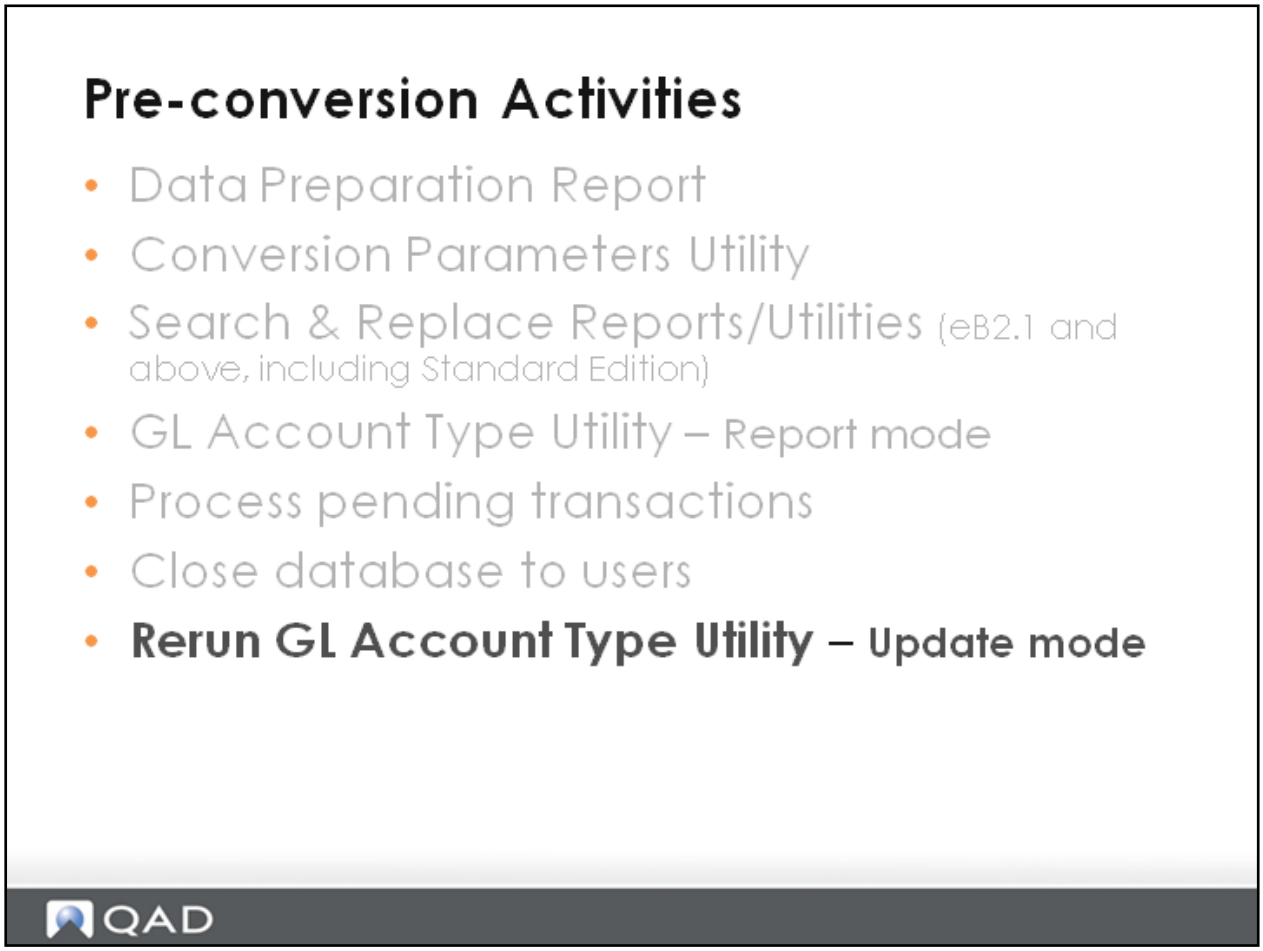
Pre-conversion Activities



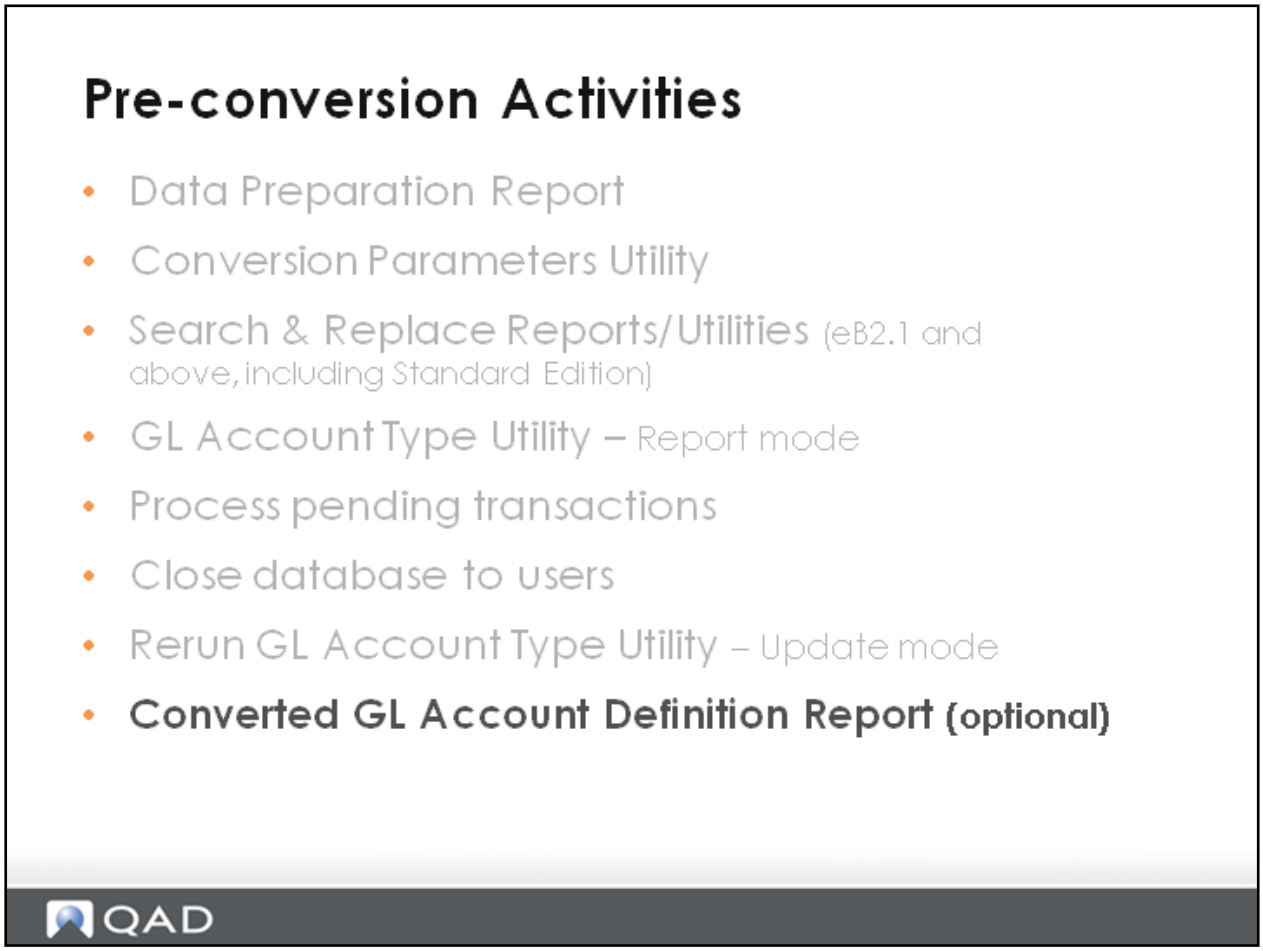
Process Pending Transactions



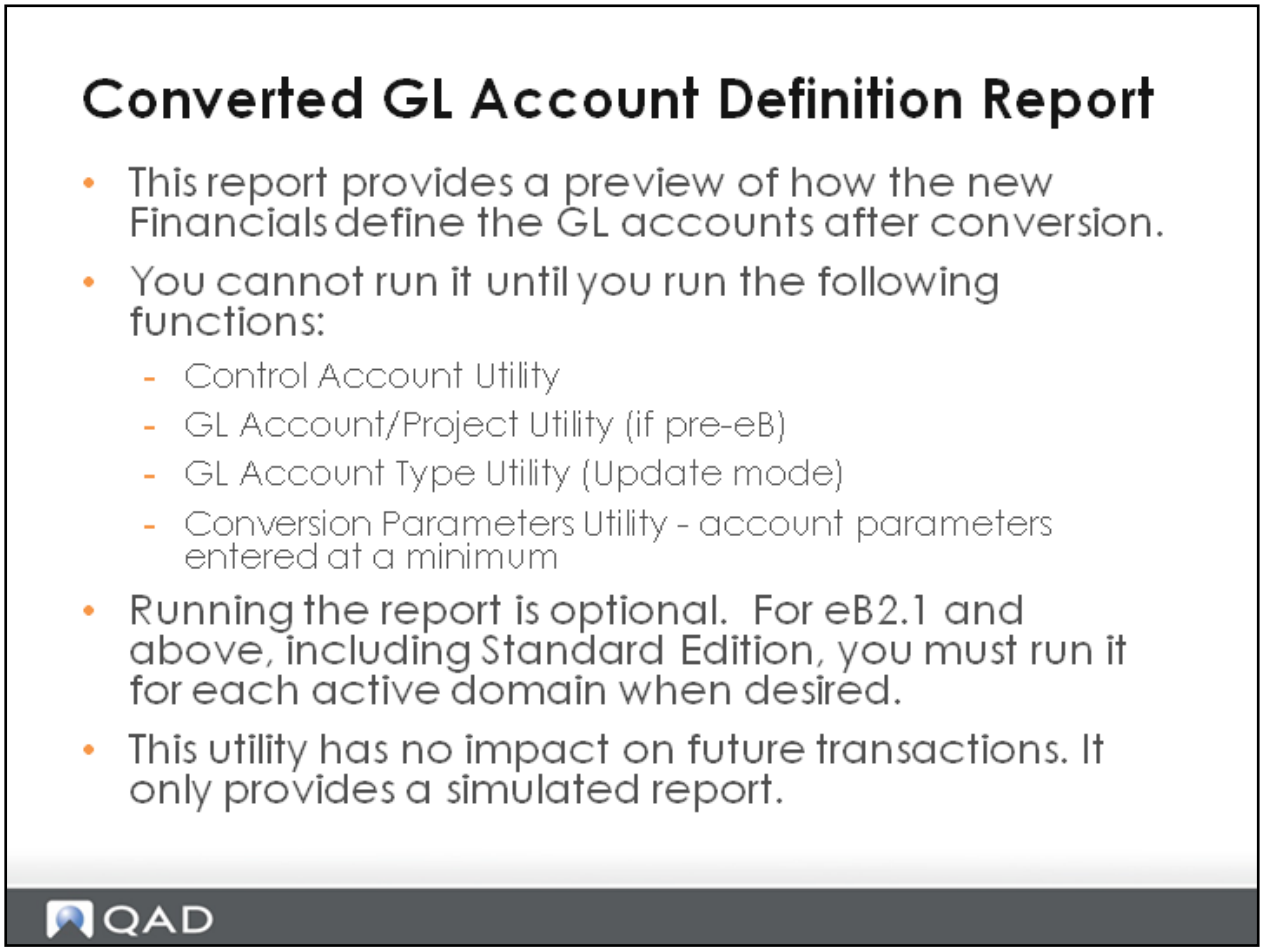
Pre-conversion Activities



Pre-conversion Activities



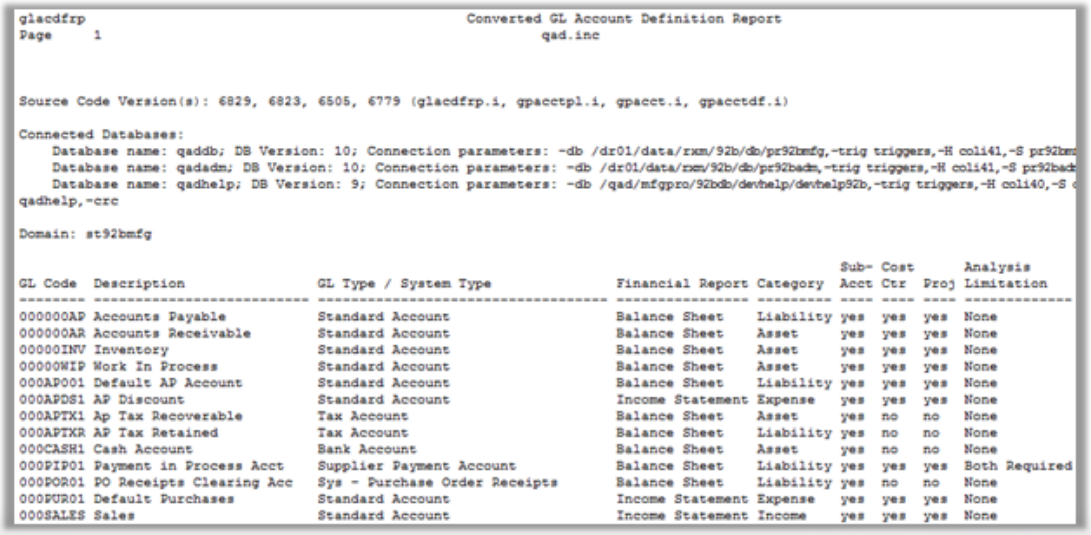
Converted GL Account Definition Report



Converted GL Account Definition Report

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

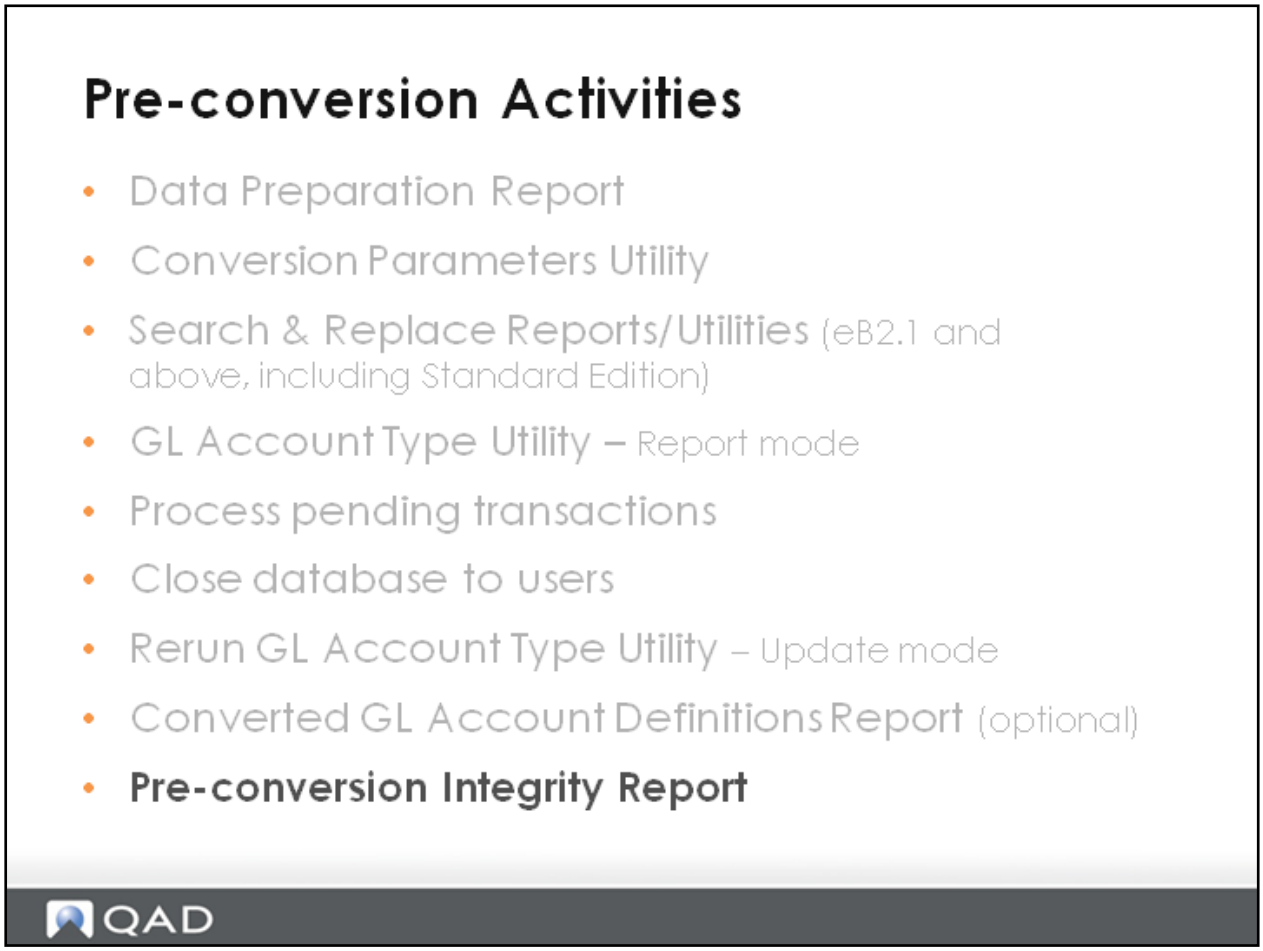

Source Code Version(s): 6829, 6823, 6505, 6779 (glacdfrp.i, gpacctpl.i, gpacct.i, gpacctdf.i)

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

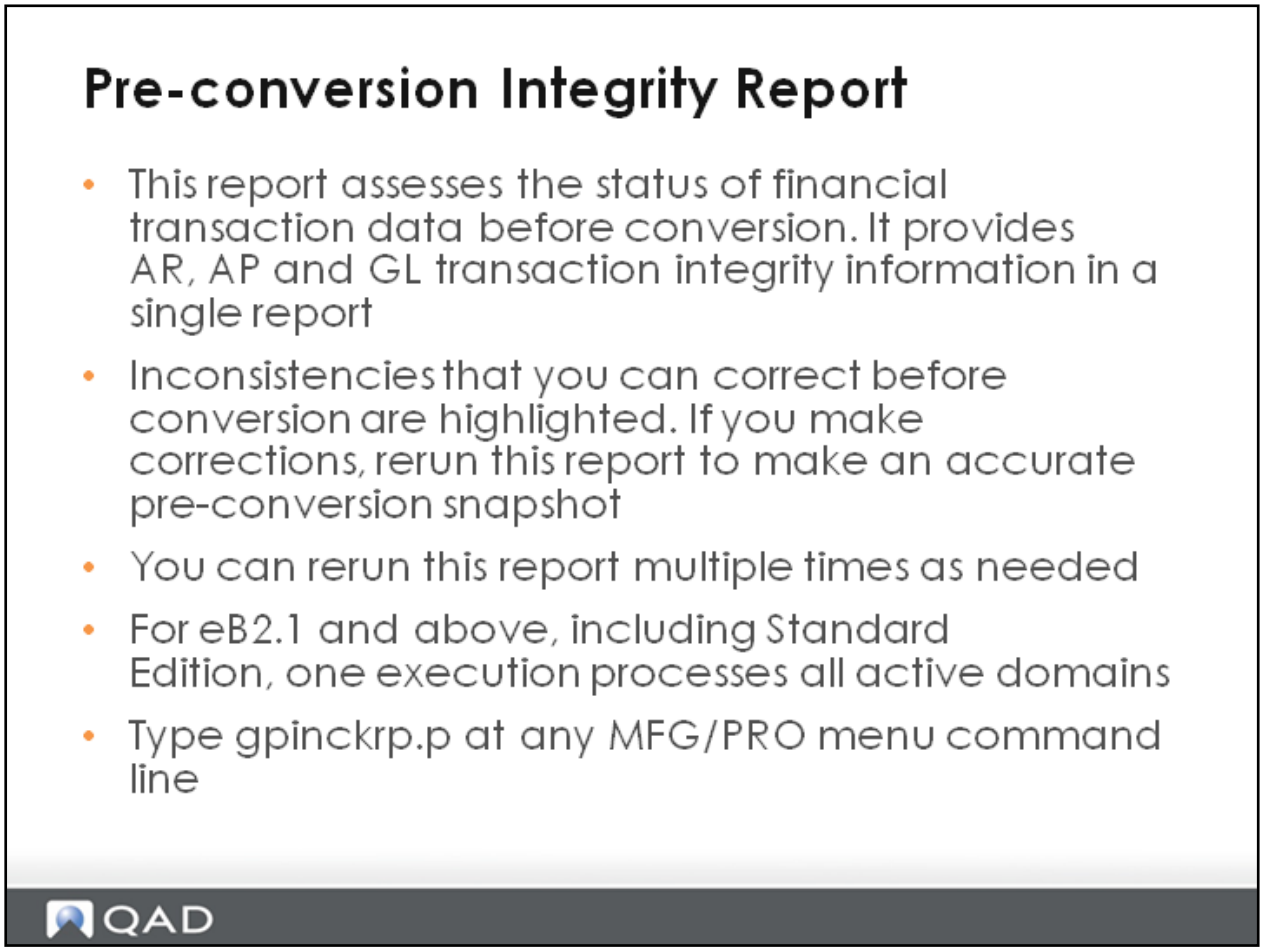
Domain: st92bmfg

                                                                                                  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
```

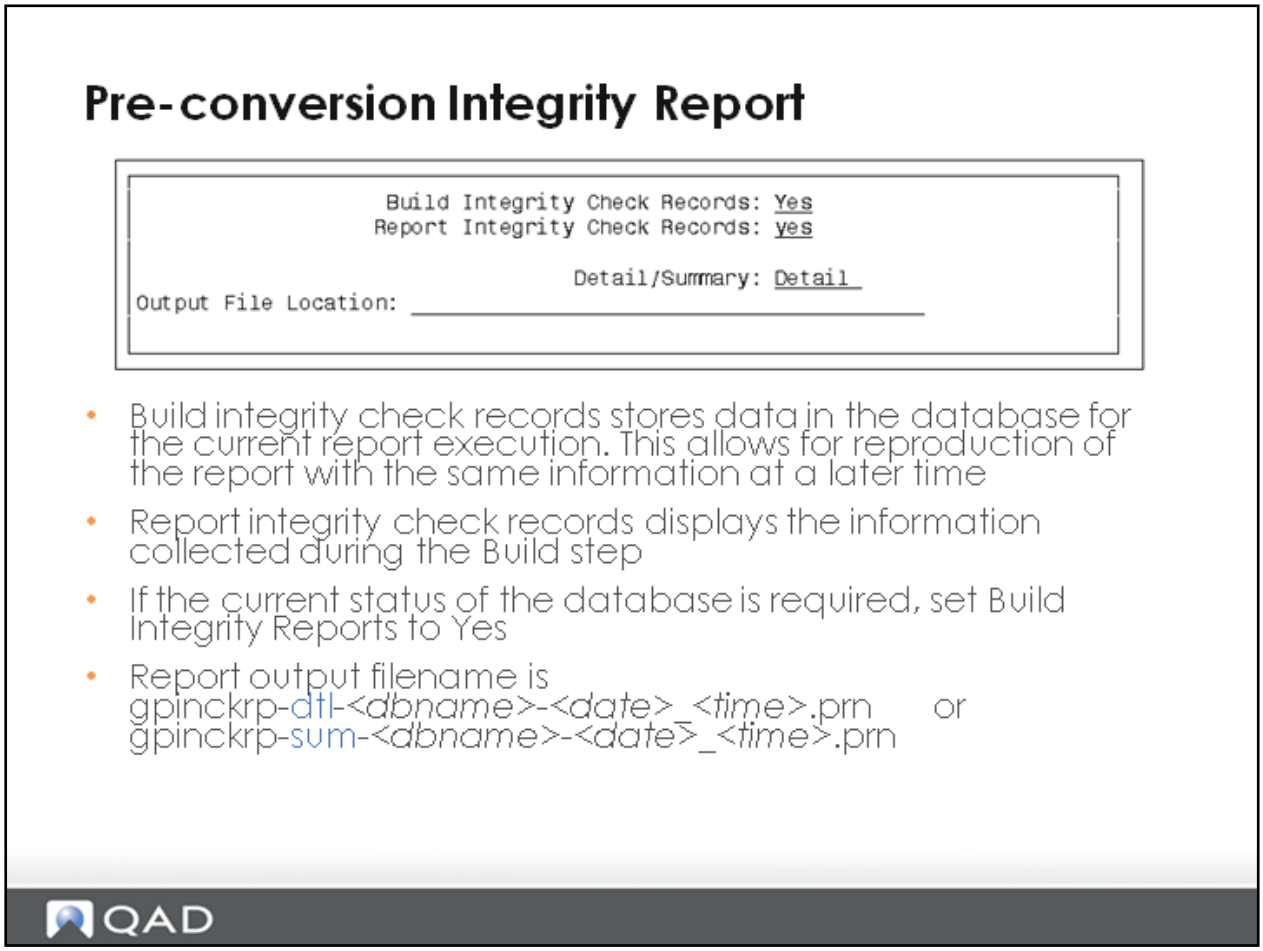
Pre-conversion Activities



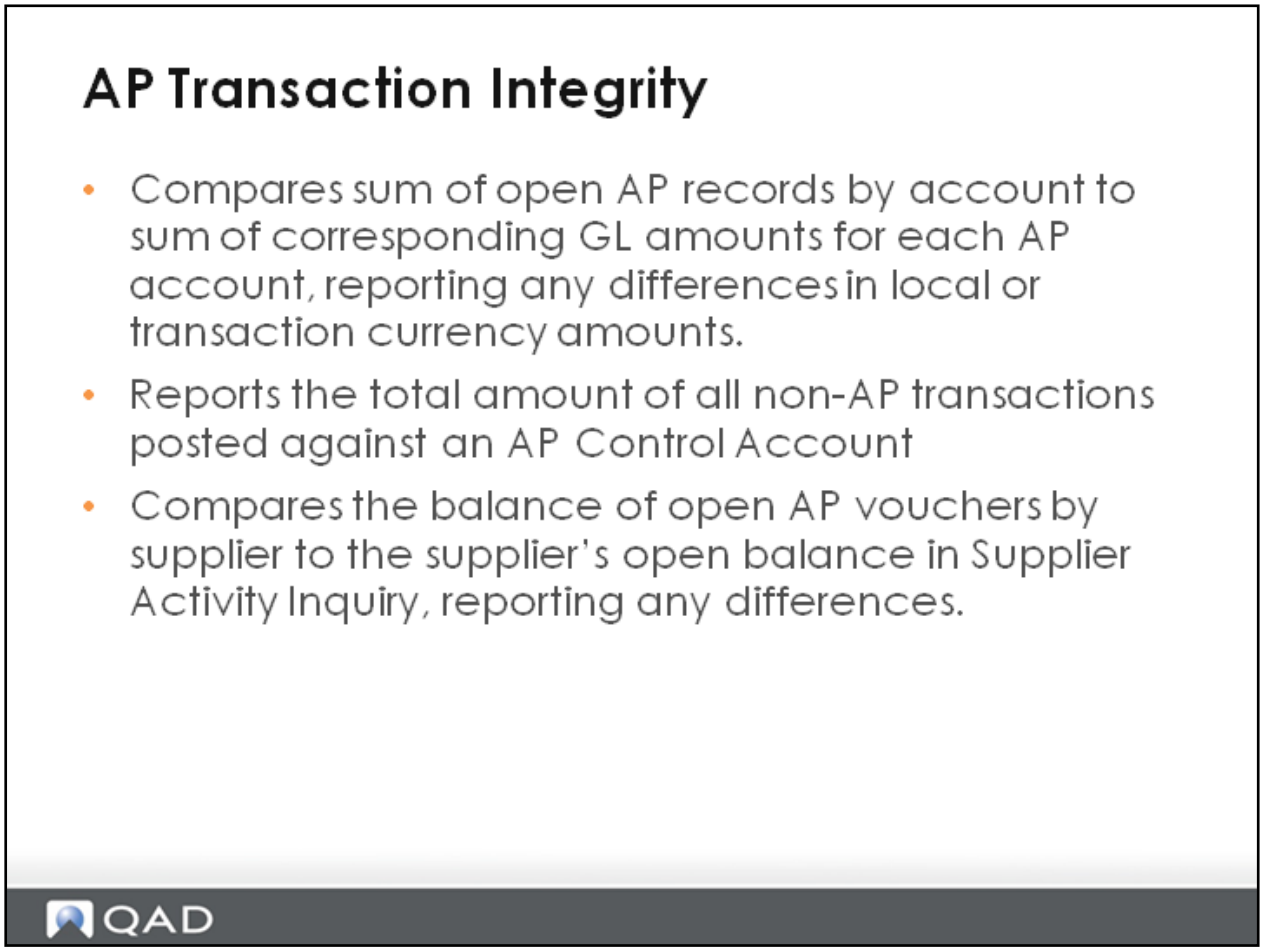
Pre-conversion Integrity Report



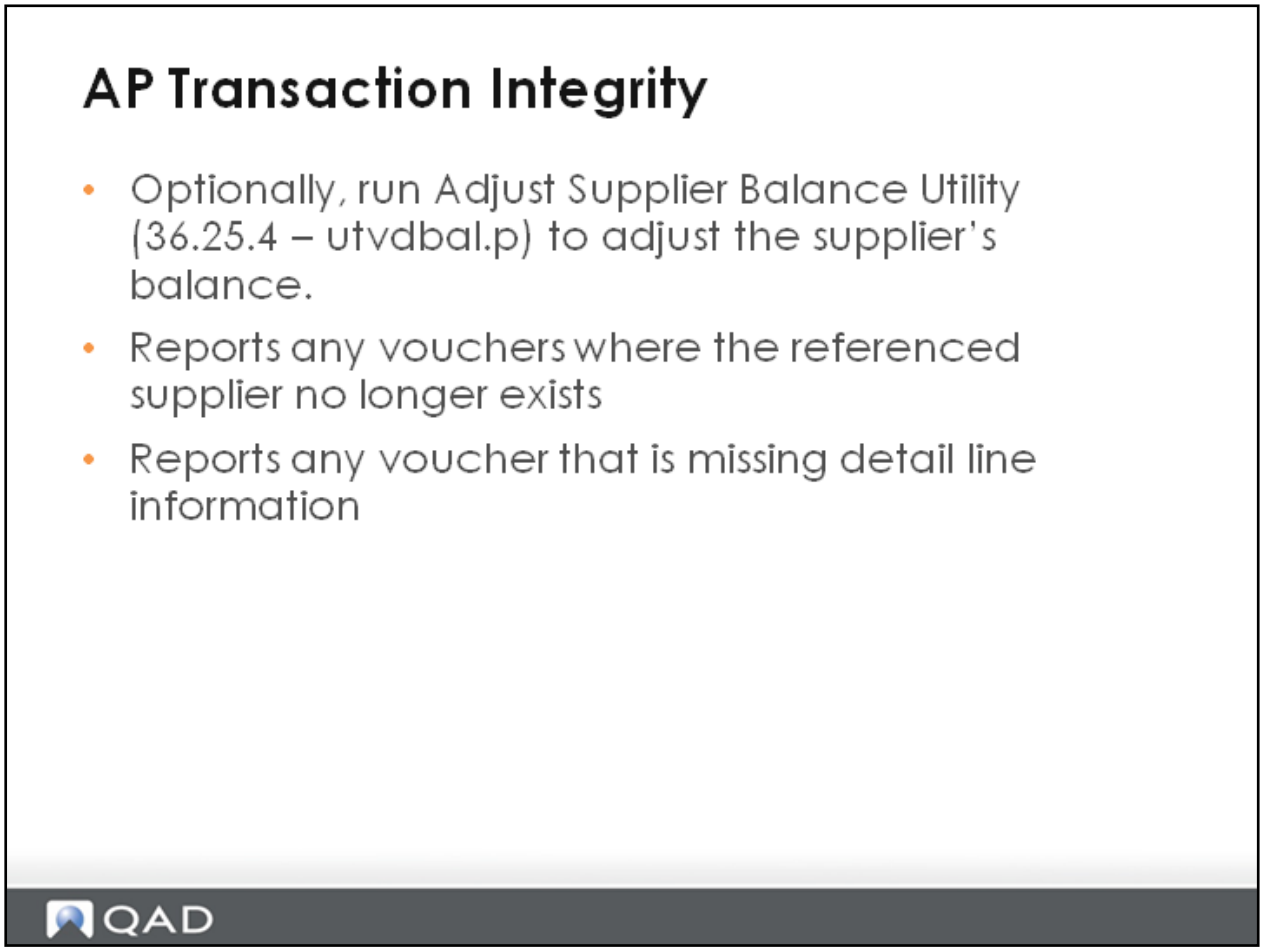
Pre-conversion Integrity Report



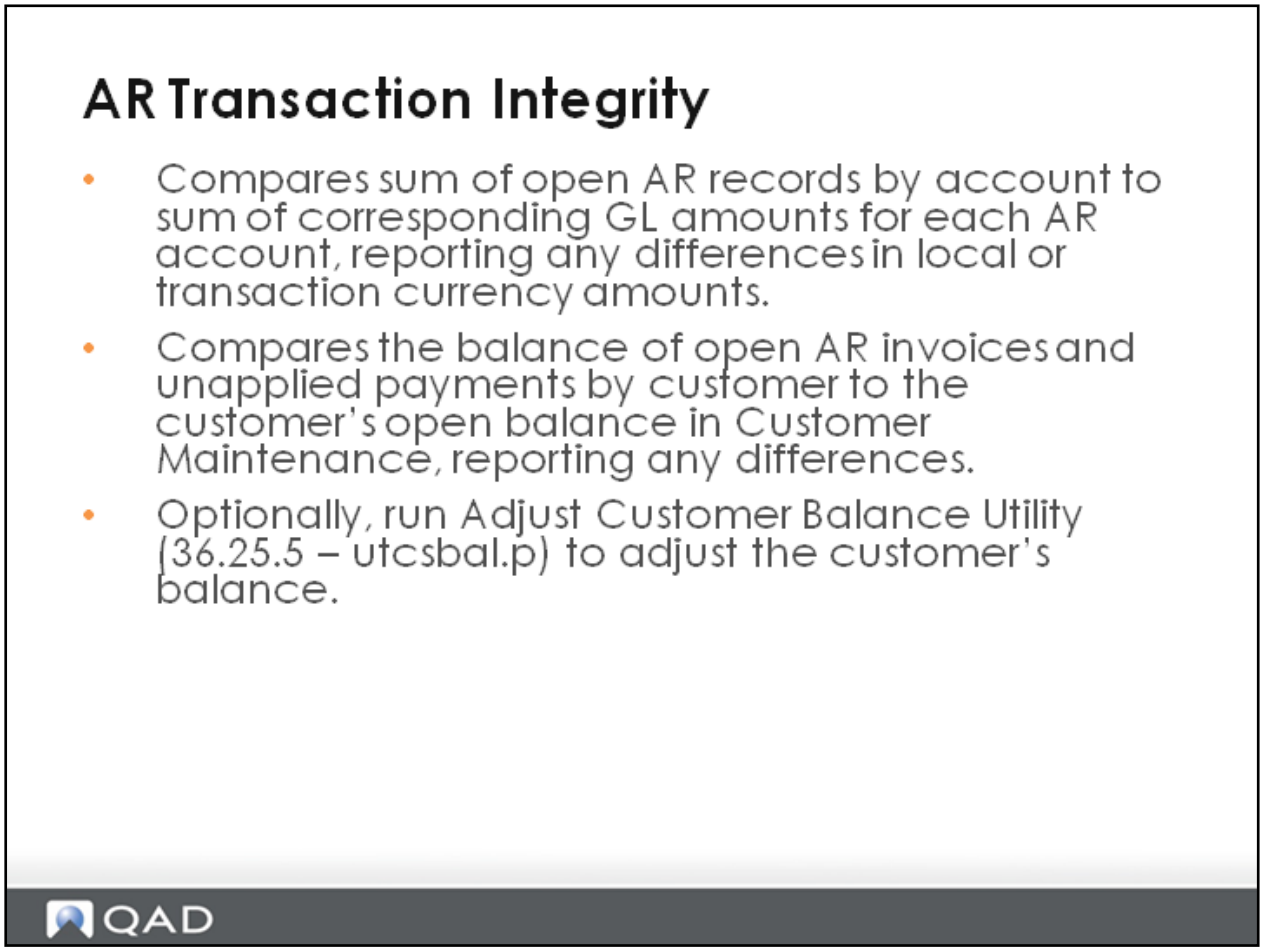
AP Transaction Integrity



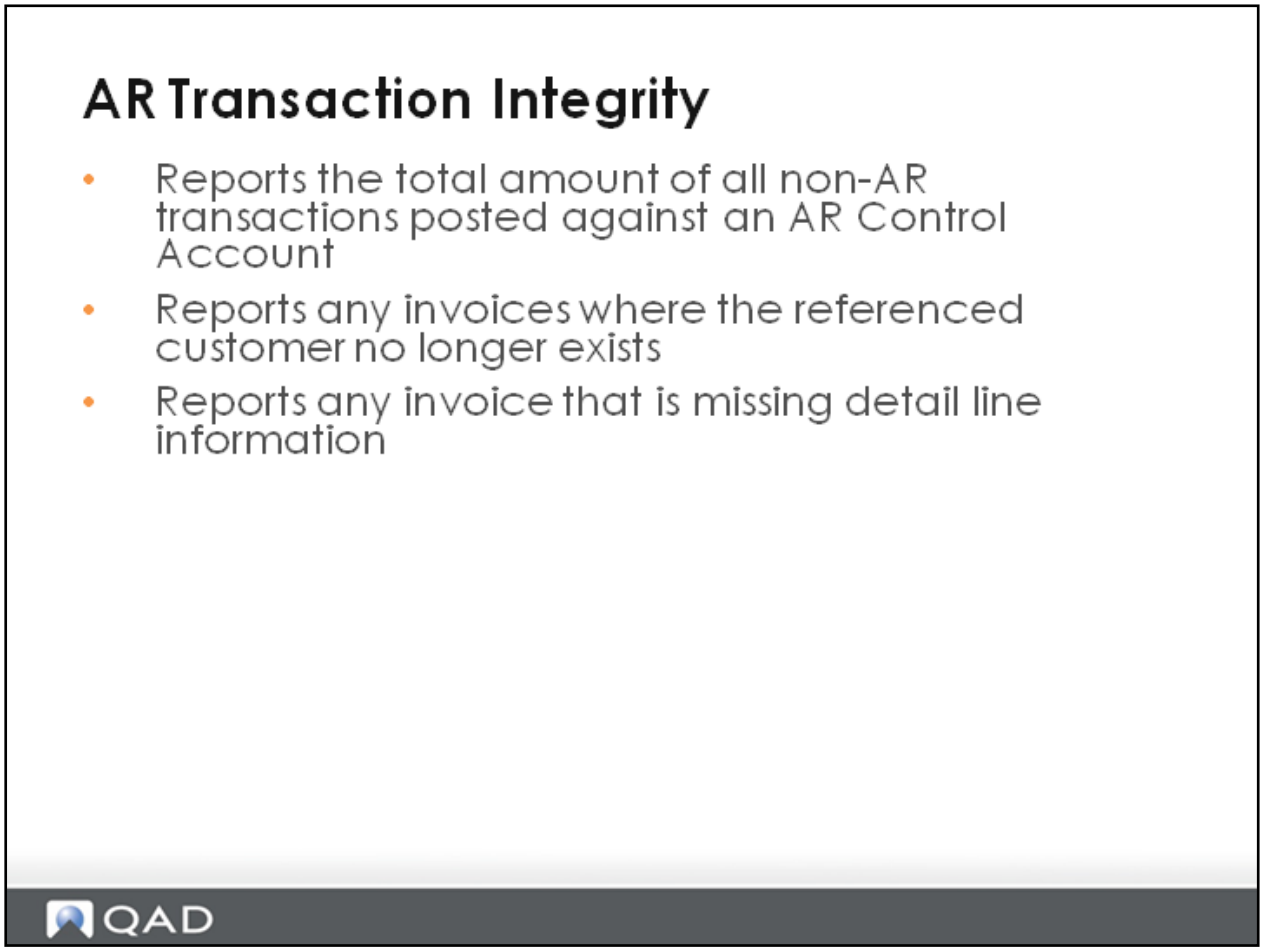
AP Transaction Integrity



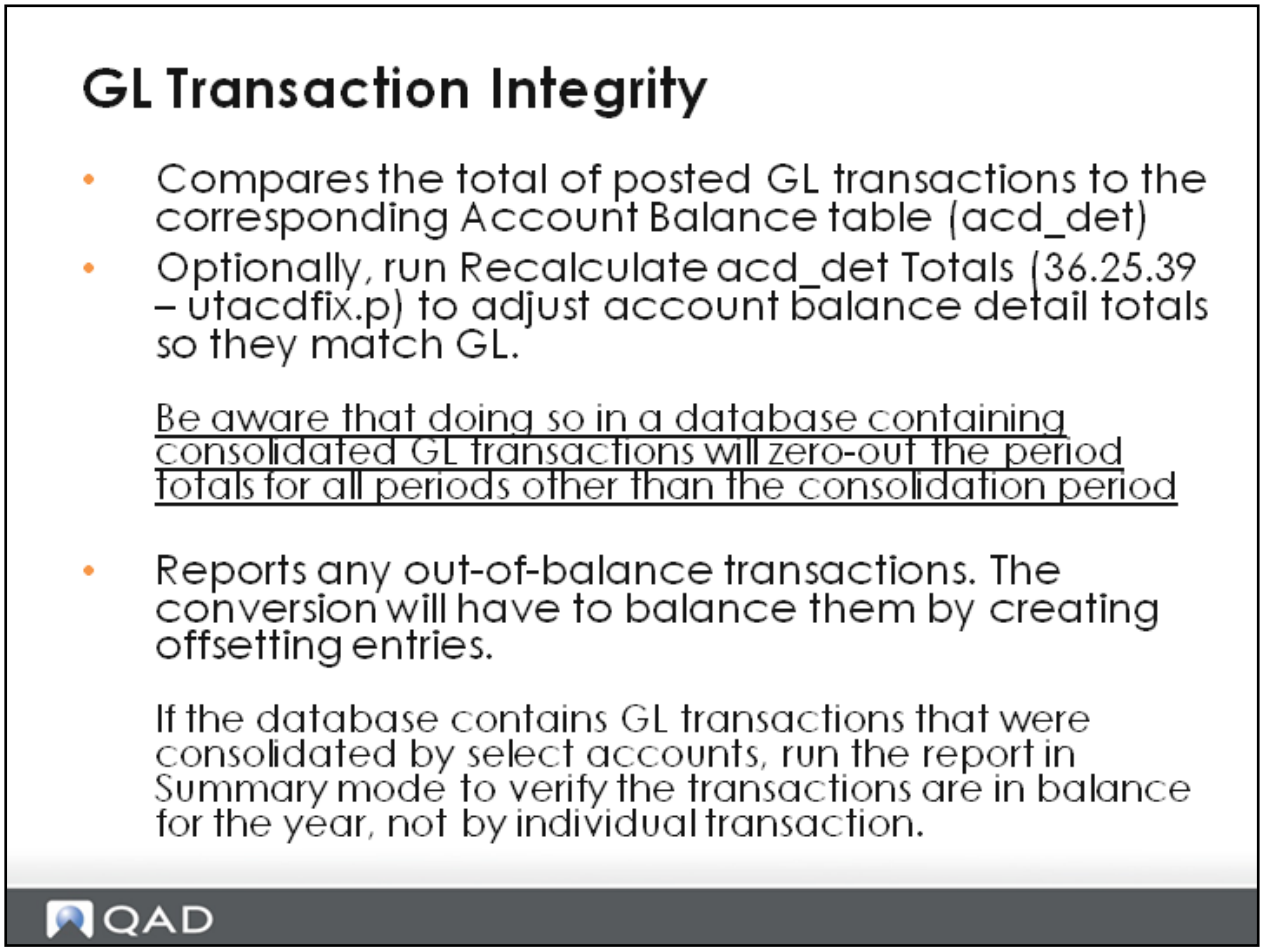
AR Transaction Integrity



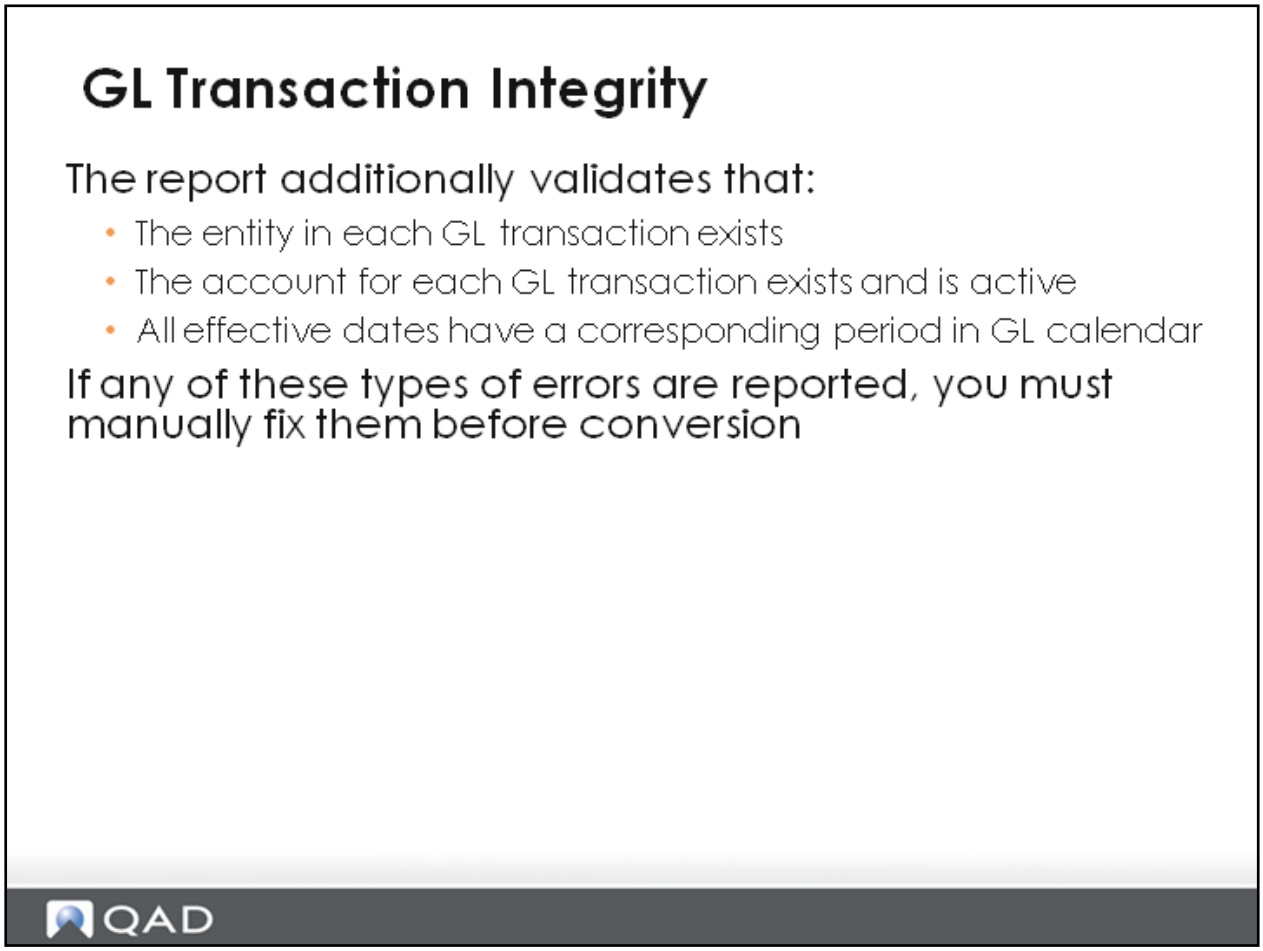
AR Transaction Integrity



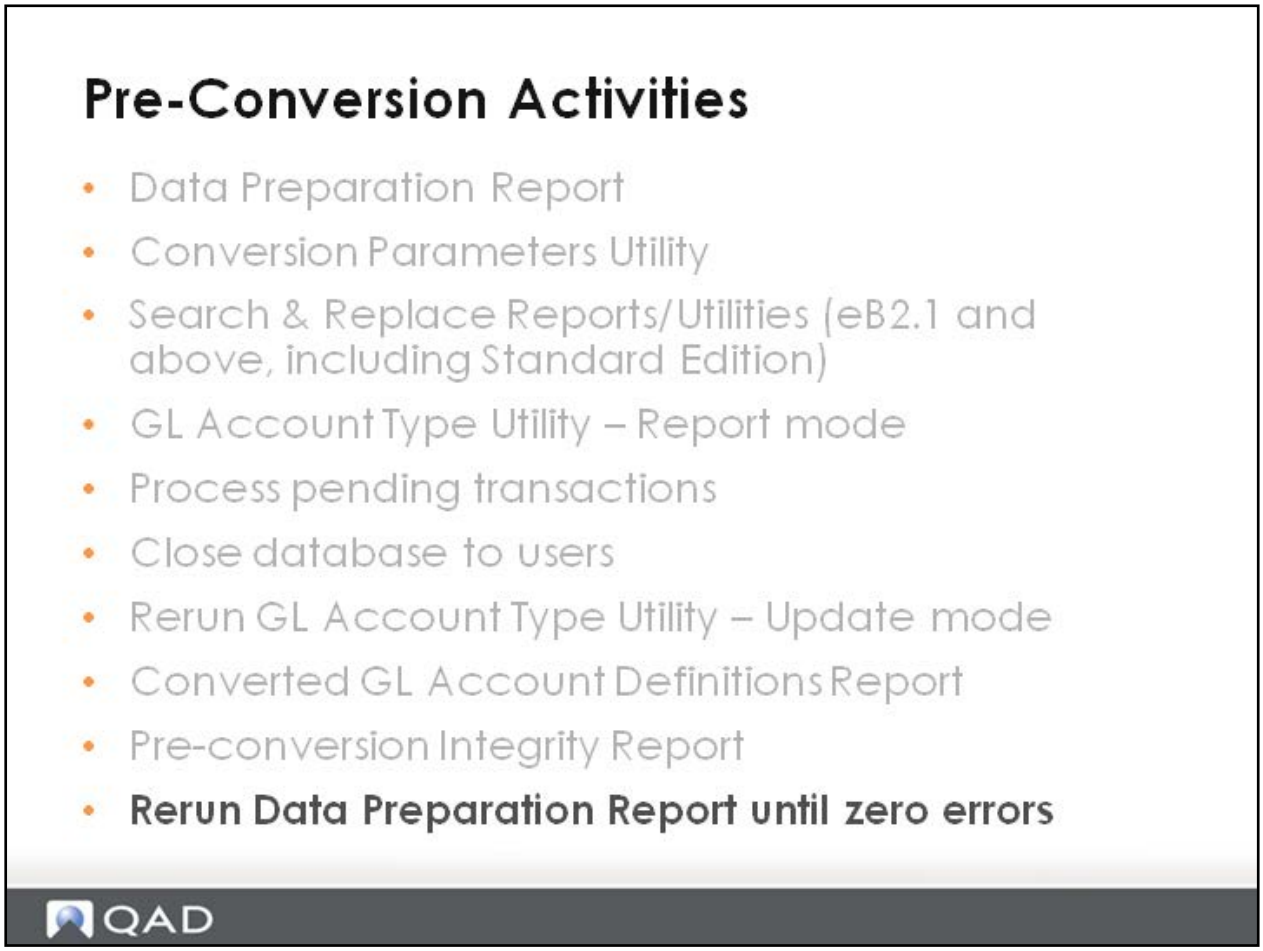
GL Transaction Integrity



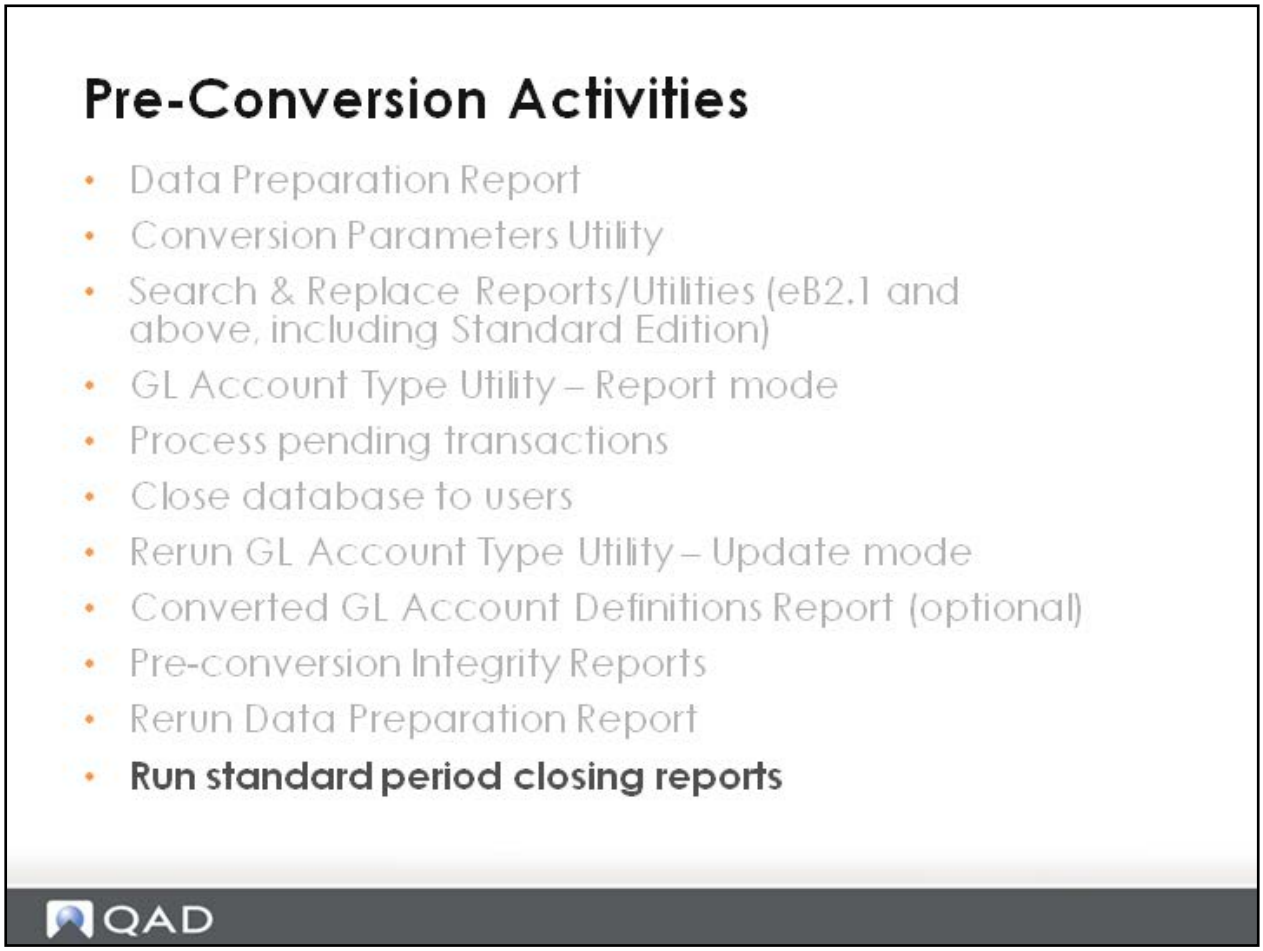
GL Transaction Integrity



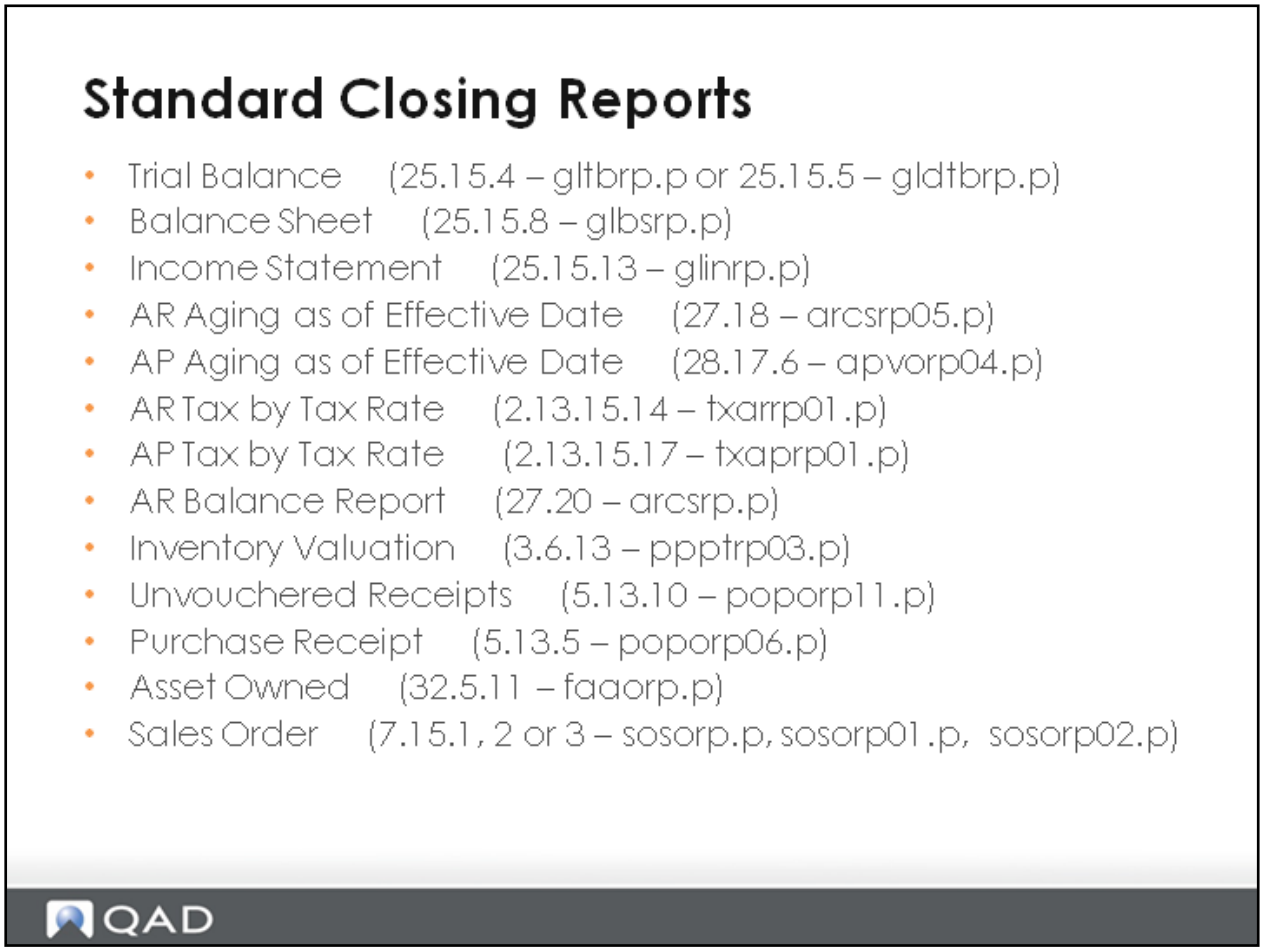
Pre-Conversion Activities



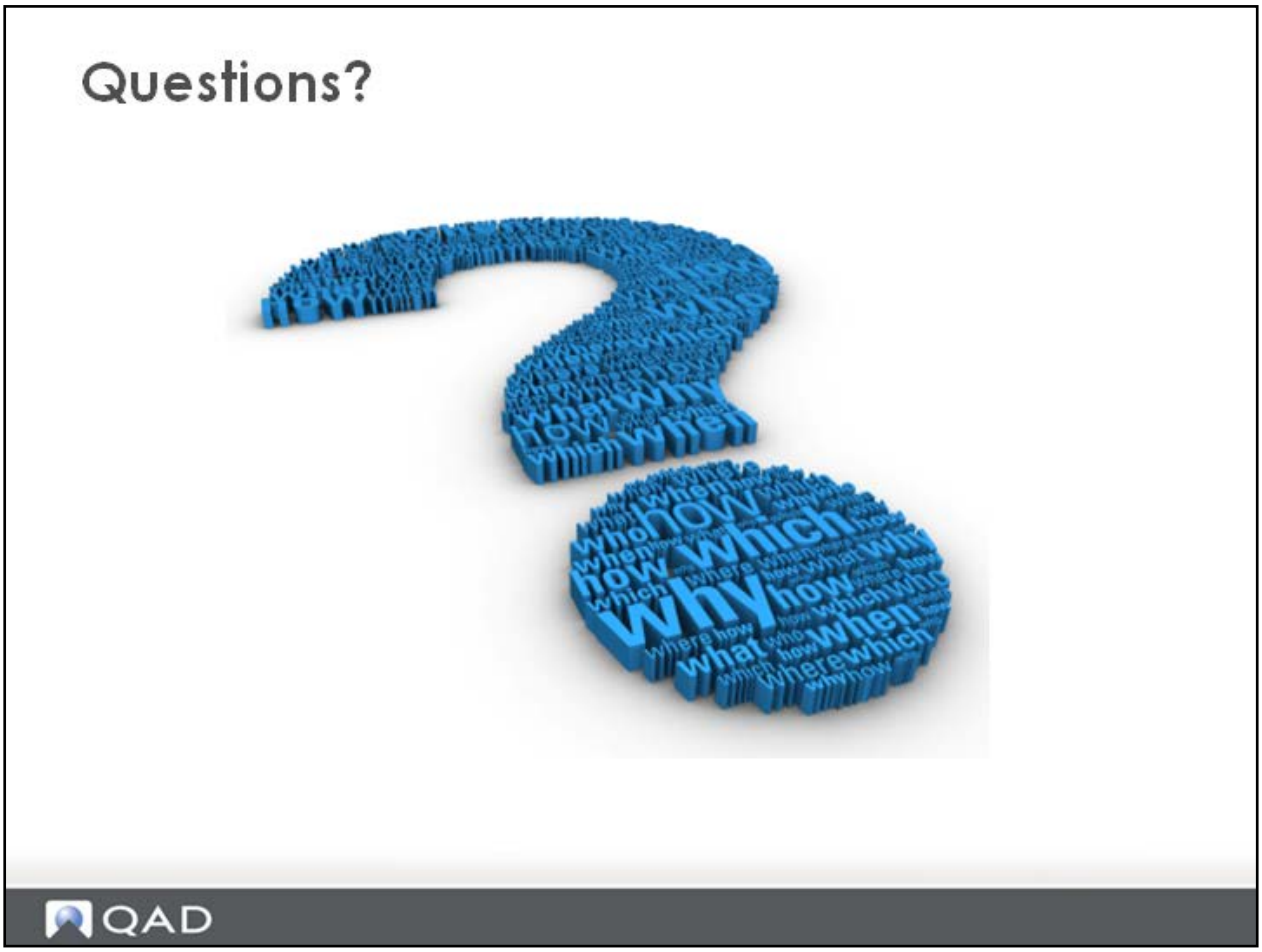
Pre-Conversion Activities



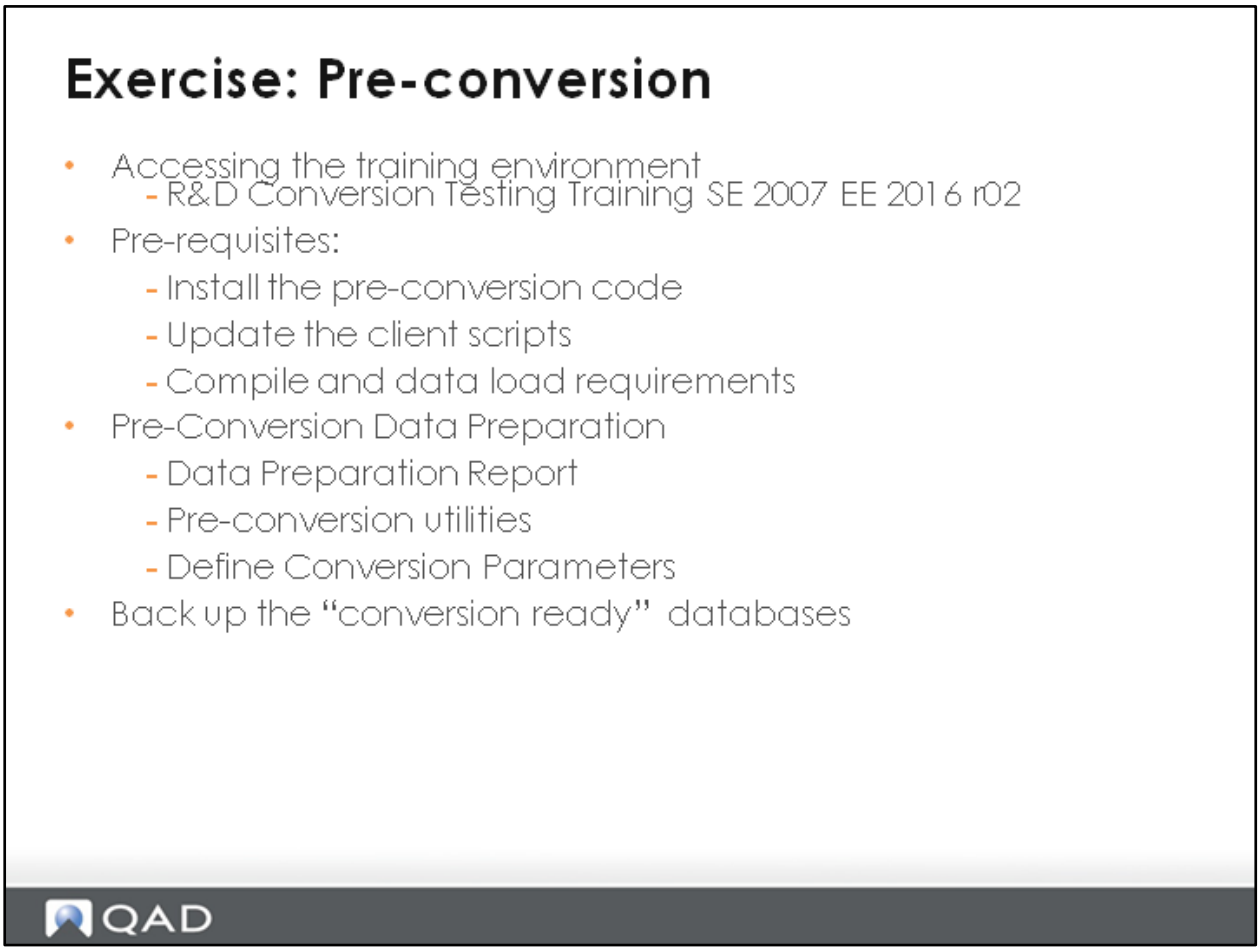
Standard Closing Reports



Questions?



Lab Exercise - Pre-conversion



Accessing the Pre-Conversion Software

1. Log in to the linux server as root.

   Username: admin

   Password: qad

   a. Mount the downloads-int drive to /mnt.

      ```
      # mount downloads-int.qad.com:/dr01/QAD_SW_ISOs /mnt
      ```

2. Once successful, exit the session.

Note: All further activities for this exercise should be carried out on the Linux server as user: mfg

Login : mfg

Password : qad

Prerequisite

Note: All prerequisite activities should be carried out on the Linux server as user: mfg.

Login : mfg

Password : qad

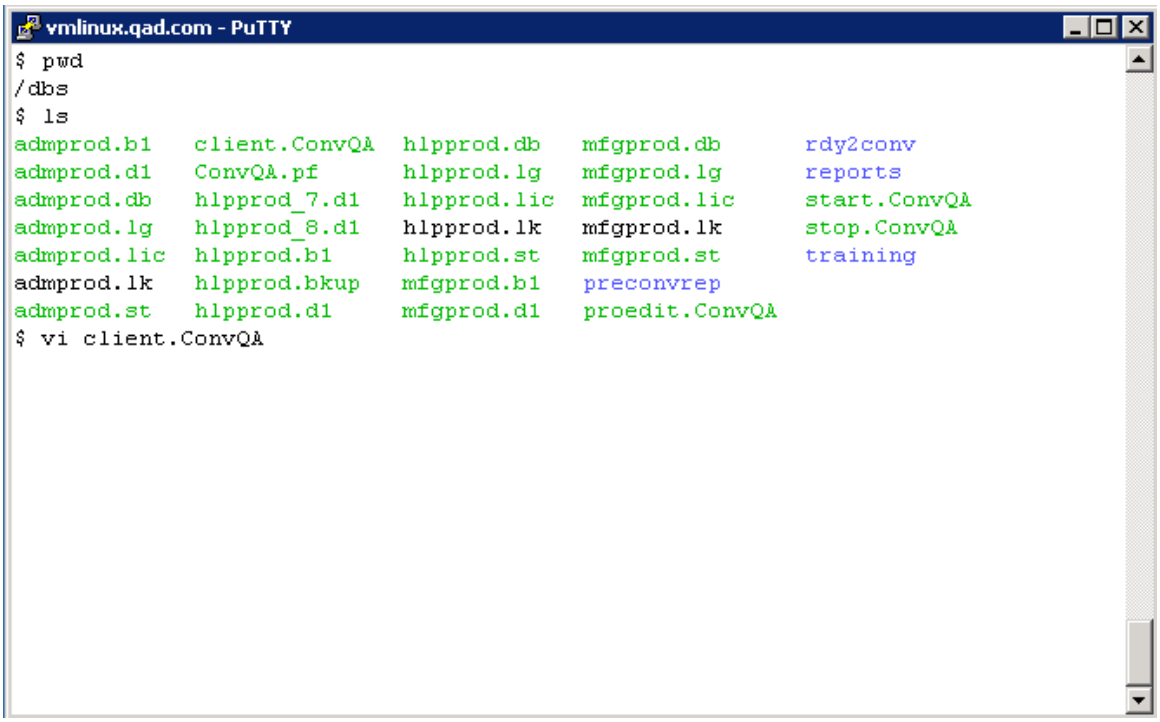
1. Install and extract the pre-conversion code:

```
$ cd /mnt/qad_2016_ee.iso/etc/preconvrep
$ unzip preconvrep.zip –d /dbs/preconvrep
```

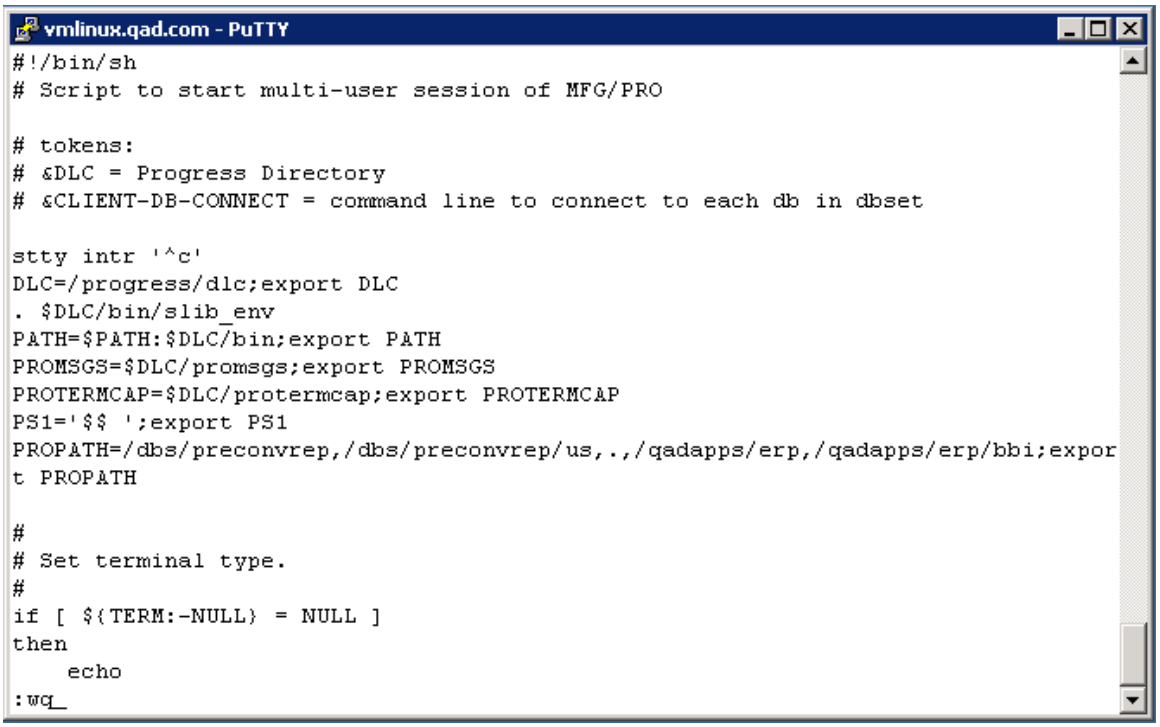


2. Modify the propath of the eB2.1 environment to include the path of the pre-conversion software:

```
$ cd /dbs
```



3. Edit the `client.ConvQA` script:



4. Prefix the “PROPATH” setting with the following:

```
/dbs/preconvrep,/dbs/preconvrep/us,
```

5. Compile the Table Extension Domain utilities & Search and Replace utilities. See *Lab 1 Reference - Compiling Table Extension Domain Utilities*.

6. Load the .d files for the Table Extension Domain utility and Search and Replace utilities. These files are loaded into the mfgprod and admprod databases in following directory:

   ```
   /dbs
   ```

   Using the data dictionary utility, load the following 6 .d files:

Database	**Files** (/dbs/preconvrep)
mfgprod	cd_det.d, lpmd_det.d, mnd_det.d, mnt_det.d
admprod	lbl_mstr.d, pgmi_mstr.d

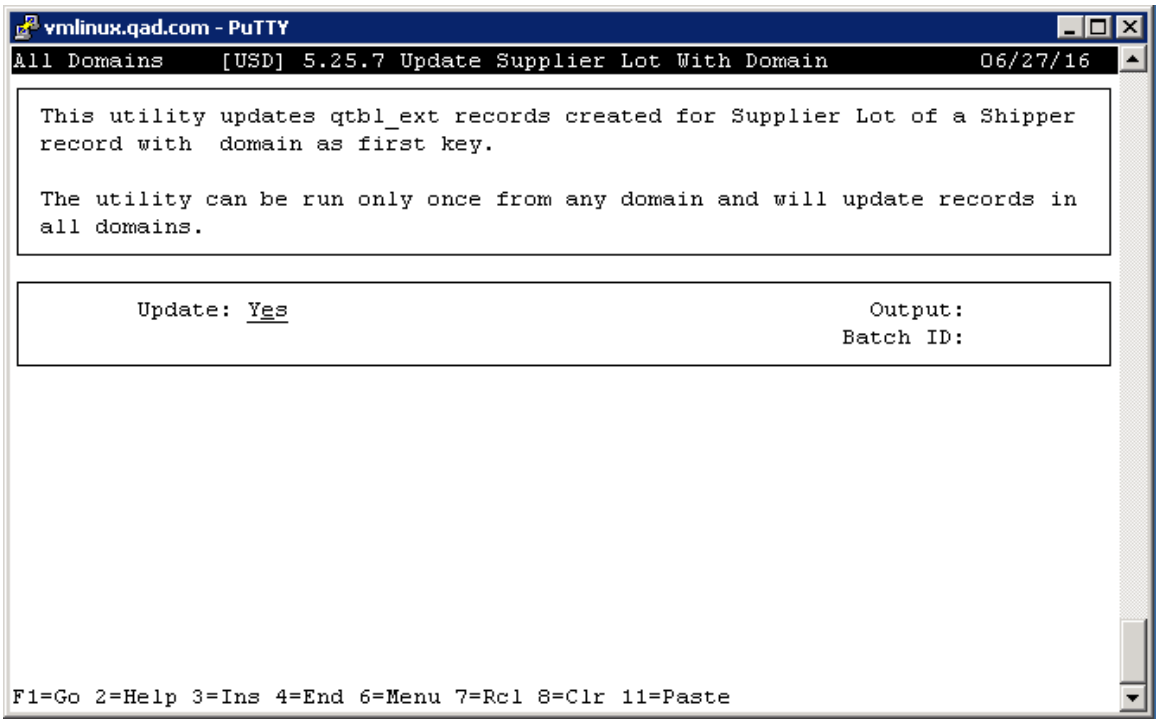
   Note: The file names correspond to the specific table that each file is to be loaded into; for example, cd_det.d should be loaded to the cd_det table. You can ignore any 'record already exists' errors as some of these .d files may have been already loaded on this test system.

7. Run the Table Extension Domain Utilities.
8. Log in to the eB2.1 CHUI interface.

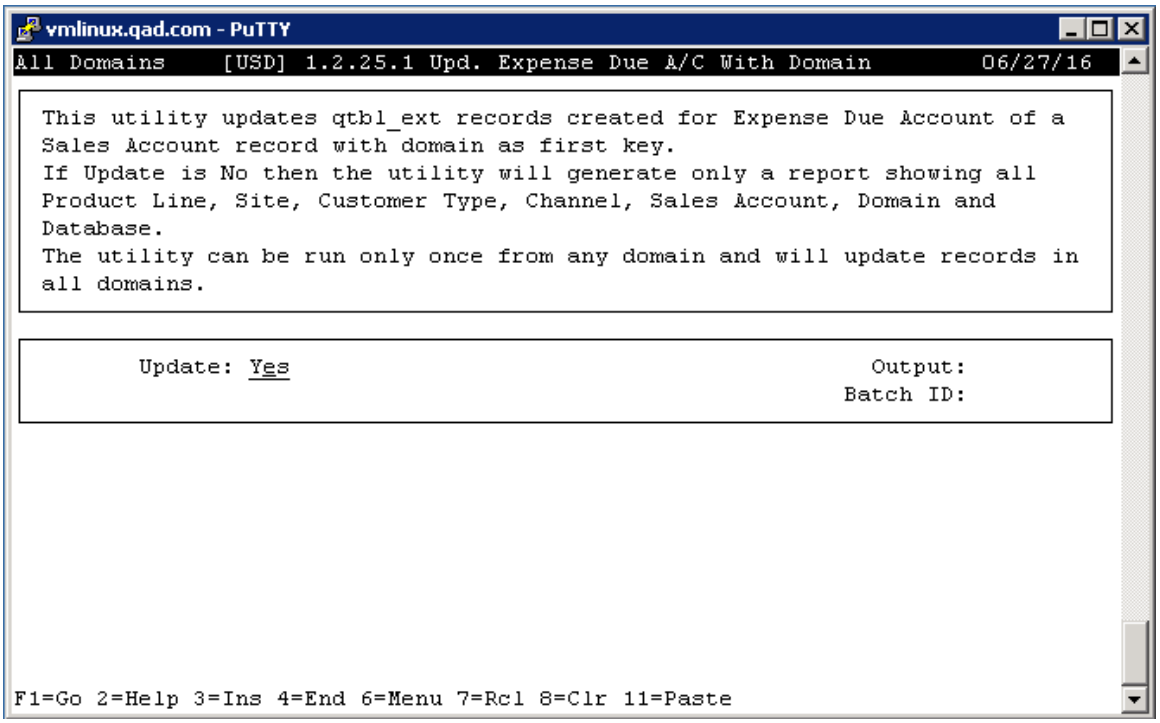
   ```
   $ cd /dbs
   $ ./start.ConvQA
   $ ./client.ConvQA (login:mfg/<blank>)
   ```

9. Run the following programs by typing the program name at the command prompt. The program prompts if it is required to run it for every domain.

   a. Run `utqtabs.p` with update = Yes.



b. Next, run `utqtplsd.p`.



c. Once the above is complete log out of the eB2.1 CHUI Interface.

Data Preparation

Note: All data preparation activities should be carried out on the Linux server as user mfg.

Login : mfg

Password : qad

When running pre-conversion reports and utilities for these training exercises, if you are prompted for an "Output file location", use the `/home/mfg` directory.

1. Log in into the eB2.1 CHUI interface:

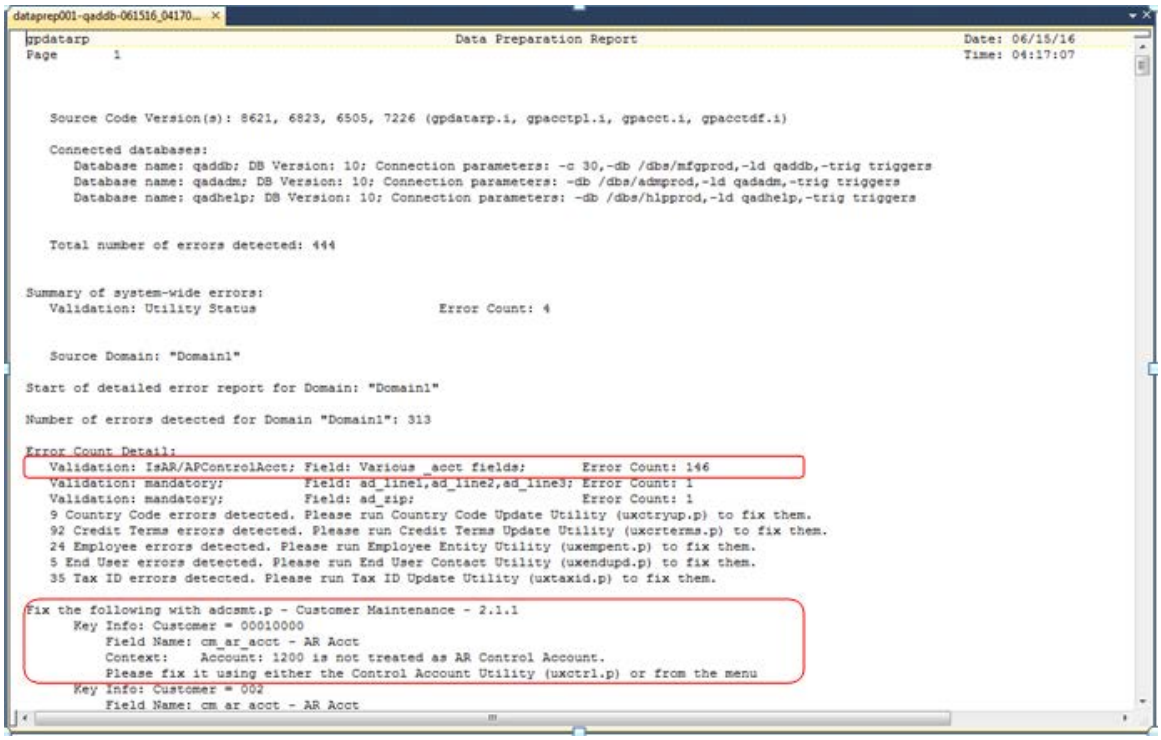
   ```
   $ cd /dbs
   $ ./start.ConvQA
   $ ./client.ConvQA (login:mfg/<blank>)
   ```

2. Run the Data Preparation report (`gpdatarp.p`) from the menu, by entering the name of the program (`gpdatarp.p`). Output the file to a directory location (`/home/mfg`).

   The Data Preparation Report, which is the gatekeeper for the conversion, highlights data issues that must be resolved before conversion. You cannot run the conversion until this report has zero errors.

   For many of the reported issues, separate utilities are available to assist in resolving those issues. The Data Preparation Report indicates if separate utilities are available. It is likely that you will need to run the Data Preparation Report multiple times before all of the issues are resolved.

3. Review the report output.



Control Account Utility (uxctrl.p).

Note: The conversion routines must know which accounts are used as Accounts Receivable and Accounts Payable control accounts. Until you run this utility the Data Preparation Report will display errors as highlighted above.

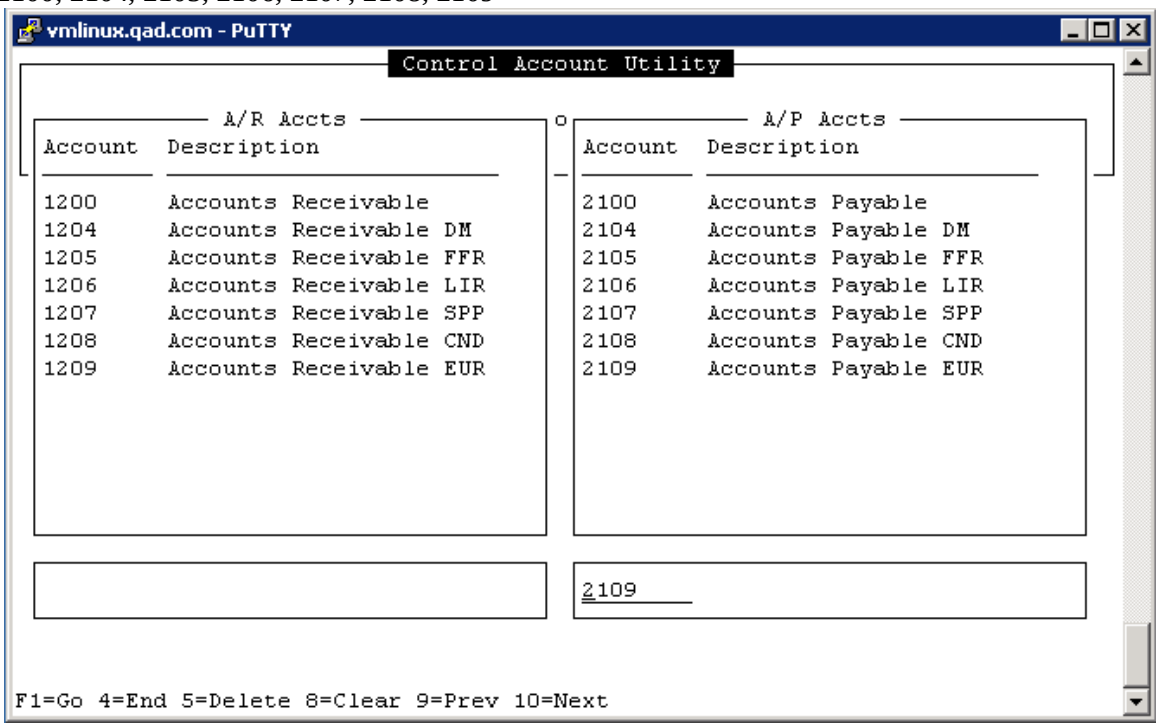
4. Run the Control Account Utility (`uxctrl.p`). When the utility prompts you for lists of the accounts that are currently used, add the following account codes:

    a. Enter the following GL accounts as AR Control Accounts:

    1200, 1204, 1205, 1206, 1207, 1208, 1209

    b. Enter the following GL accounts as AP Control Accounts:

    2100, 2104, 2105, 2106, 2107, 2108, 2109

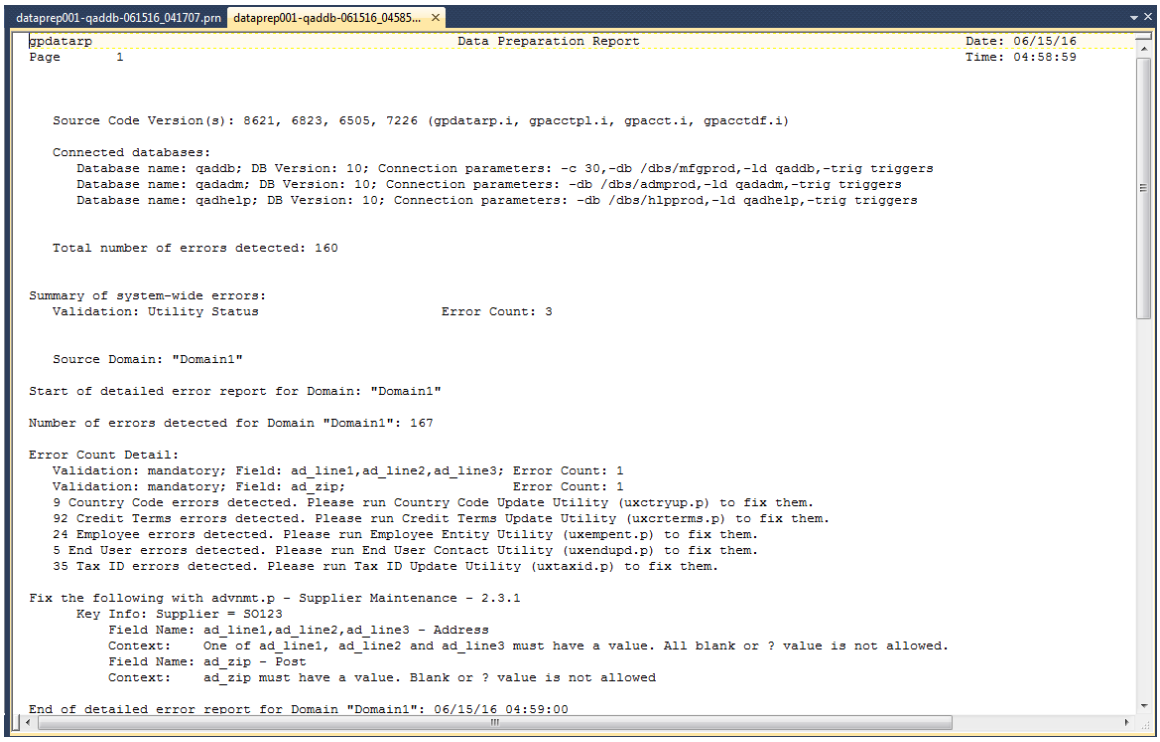


    c. Switch to Domain2 (option 36.10.13 Change Current Domain) and run the utility again (`uxctrl.p`).

    Enter the following GL accounts as AR Control Accounts: 1200

    Enter the following GL accounts as AP Control Accounts: 2100

    d. Rerun the data preparation report to verify the control account errors no longer appear.



```
dataprep001-qaddb-061516_041707.prn  dataprep001-qaddb-061516_04585...

gpdatarp                                    Data Preparation Report                    Date: 06/15/16
Page       1                                                                           Time: 04:58:59



   Source Code Version(s): 8621, 6823, 6505, 7226 (gpdatarp.i, gpacctpl.i, gpacct.i, gpacctdf.i)

   Connected databases:
      Database name: qaddb; DB Version: 10; Connection parameters: -c 30,-db /dbs/mfgprod,-ld qaddb,-trig triggers
      Database name: qadadm; DB Version: 10; Connection parameters: -db /dbs/admprod,-ld qadadm,-trig triggers
      Database name: qadhelp; DB Version: 10; Connection parameters: -db /dbs/hlpprod,-ld qadhelp,-trig triggers


   Total number of errors detected: 160


Summary of system-wide errors:
   Validation: Utility Status                    Error Count: 3


   Source Domain: "Domain1"

Start of detailed error report for Domain: "Domain1"

Number of errors detected for Domain "Domain1": 167

Error Count Detail:
   Validation: mandatory; Field: ad_line1,ad_line2,ad_line3; Error Count: 1
   Validation: mandatory; Field: ad_zip;                     Error Count: 1
   9 Country Code errors detected. Please run Country Code Update Utility (uxctryup.p) to fix them.
   92 Credit Terms errors detected. Please run Credit Terms Update Utility (uxcrterms.p) to fix them.
   24 Employee errors detected. Please run Employee Entity Utility (uxempent.p) to fix them.
   5 End User errors detected. Please run End User Contact Utility (uxendupd.p) to fix them.
   35 Tax ID errors detected. Please run Tax ID Update Utility (uxtaxid.p) to fix them.

Fix the following with advnmt.p - Supplier Maintenance - 2.3.1
      Key Info: Supplier = SO123
          Field Name: ad_line1,ad_line2,ad_line3 - Address
          Context:    One of ad_line1, ad_line2 and ad_line3 must have a value. All blank or ? value is not allowed.
          Field Name: ad_zip - Post
          Context:    ad_zip must have a value. Blank or ? value is not allowed

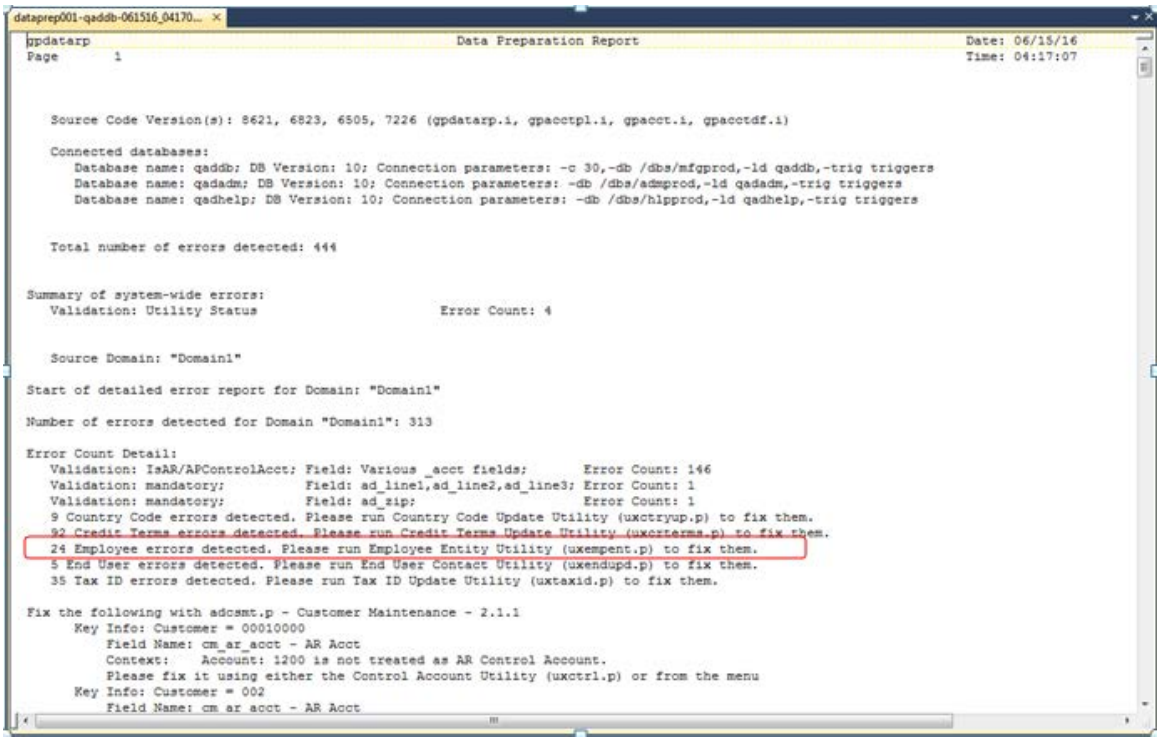
End of detailed error report for Domain "Domain1": 06/15/16 04:59:00
```

5. Switch to Domain1 (option 36.10.13 Change Current Domain).

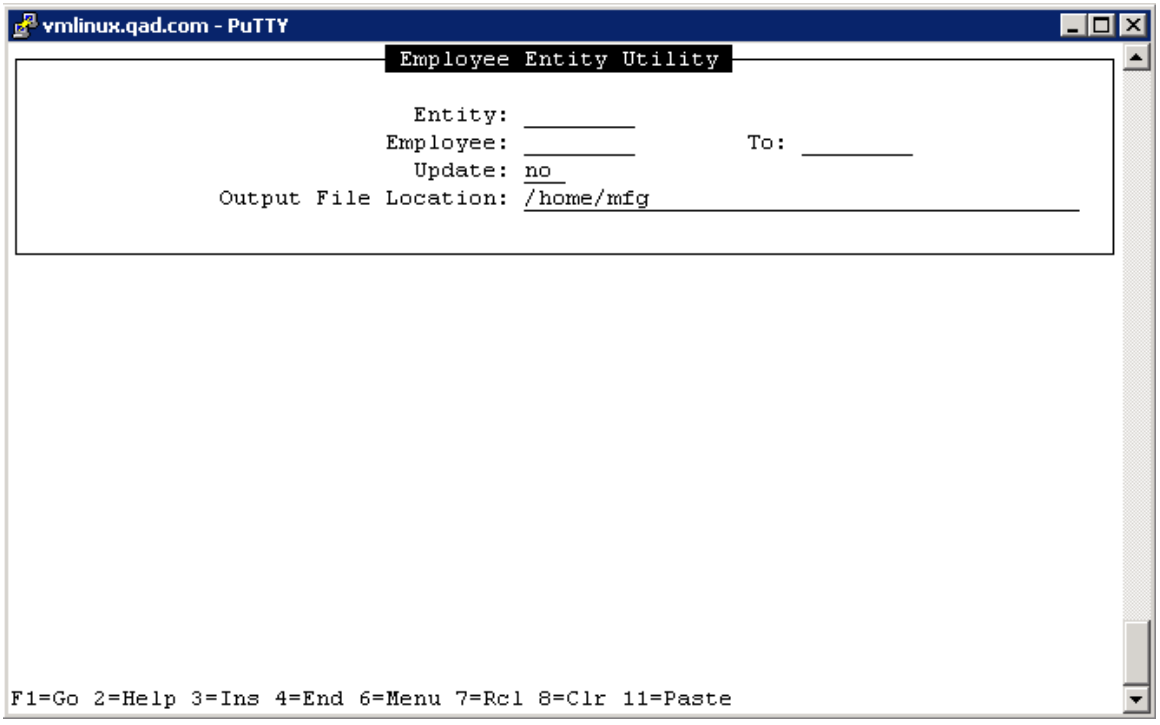
Employee Entity Utility (uxempent.p).

Note: QAD Enterprise Edition requires every employee in Employee Master (emp_mstr) to be assigned an entity code. This utility reports employee records without an entity code and optionally updates records with a user-specified value.

As we can see below, the Data Preparation Report shows that we have 24 Employee errors:



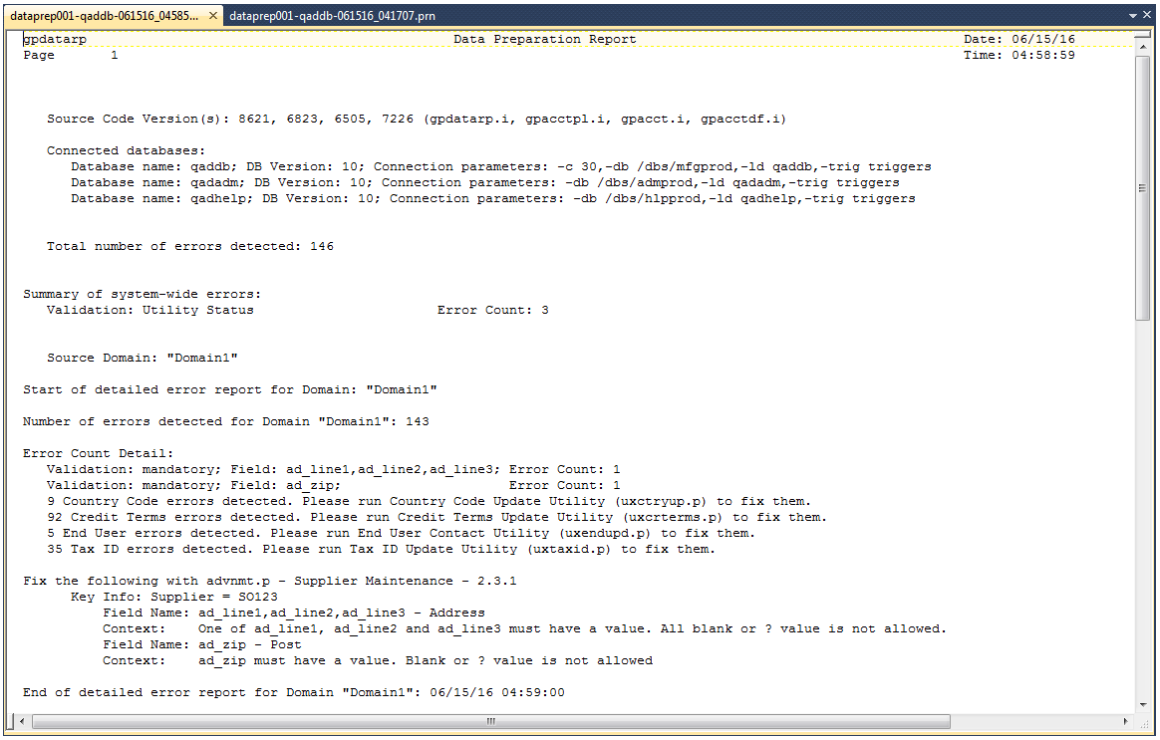
6. Run the Employee Entity Utility (`uxempent.p`). Set update to no (blank fields).



a. View the report that was generated.

b. Rerun the utility but set Update to Yes and use entity code ‘2000’ for employees that are missing an entity code in Domain1.

c. Rerun the data preparation report to verify employee entity errors no longer appear.



```
dataprep001-qaddb-061516_04585...  dataprep001-qaddb-061516_041707.prn
gpdatarp                                   Data Preparation Report                                   Date: 06/15/16
Page       1                                                                                         Time: 04:58:59


   Source Code Version(s): 8621, 6823, 6505, 7226 (gpdatarp.i, gpacctpl.i, gpacct.i, gpacctdf.i)

   Connected databases:
      Database name: qaddb; DB Version: 10; Connection parameters: -c 30,-db /dbs/mfgprod,-ld qaddb,-trig triggers
      Database name: qadadm; DB Version: 10; Connection parameters: -db /dbs/admprod,-ld qadadm,-trig triggers
      Database name: qadhelp; DB Version: 10; Connection parameters: -db /dbs/hlpprod,-ld qadhelp,-trig triggers


   Total number of errors detected: 146


Summary of system-wide errors:
   Validation: Utility Status                    Error Count: 3


   Source Domain: "Domain1"

Start of detailed error report for Domain: "Domain1"

Number of errors detected for Domain "Domain1": 143

Error Count Detail:
   Validation: mandatory; Field: ad_line1,ad_line2,ad_line3; Error Count: 1
   Validation: mandatory; Field: ad_zip;                     Error Count: 1
   9 Country Code errors detected. Please run Country Code Update Utility (uxctryup.p) to fix them.
   92 Credit Terms errors detected. Please run Credit Terms Update Utility (uxcrterms.p) to fix them.
   5 End User errors detected. Please run End User Contact Utility (uxendupd.p) to fix them.
   35 Tax ID errors detected. Please run Tax ID Update Utility (uxtaxid.p) to fix them.

Fix the following with advnmt.p - Supplier Maintenance - 2.3.1
      Key Info: Supplier = SO123
          Field Name: ad_line1,ad_line2,ad_line3 - Address
          Context:    One of ad_line1, ad_line2 and ad_line3 must have a value. All blank or ? value is not allowed.
          Field Name: ad_zip - Post
          Context:    ad_zip must have a value. Blank or ? value is not allowed

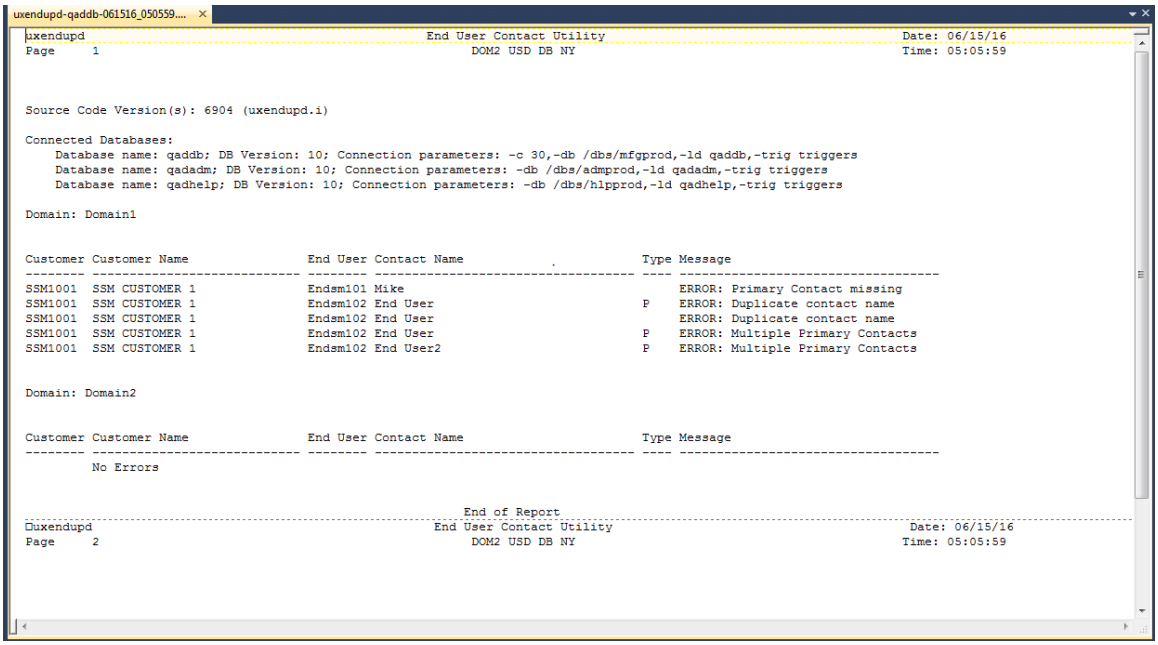
End of detailed error report for Domain "Domain1": 06/15/16 04:59:00
```

7. Run the End User Contact Utility (`uxendupd.p`).

   QAD Enterprise Edition requires that every end-user (eu_addr) record has one “Primary Contact” with a unique contact name.

   a. Run the End user Contact Utility (`uxendupd.p`) and set update to ‘No’.

   b. View the report output.



```
uxendupd-qaddb-061516_050559....

uxendupd                                    End User Contact Utility                                    Date: 06/15/16
Page     1                                        DOM2 USD DB NY                                        Time: 05:05:59


Source Code Version(s): 6904 (uxendupd.i)

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

Domain: Domain1


Customer Customer Name               End User Contact Name                    Type Message
-------- --------------------------- -------- ------------------------------- ---- ---------------------------------
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


Domain: Domain2


Customer Customer Name               End User Contact Name                    Type Message
-------- --------------------------- -------- ------------------------------- ---- ---------------------------------
         No Errors


                                                End of Report
uxendupd                                    End User Contact Utility                                    Date: 06/15/16
Page     2                                        DOM2 USD DB NY                                        Time: 05:05:59
```

c. Correct each offending end user error listed.

d. Use “End User Maintenance 11.9.1” to manually update the inconsistencies reported by the utility.

Note: See the *QAD EE Database Conversion User Guide* for more details.

e. Rerun the utility with Update set to No and view the output report to verify that all errors have been corrected.

f. (Optional) Rerun the data preparation report to verify end user errors no longer appear.

Orphaned Address Utility (uxaddrfix.p)

All customer, supplier, end-user and remit-to addresses must have a related Address List Detail (ls_mstr) record. The utility reports and optionally creates (where possible) Address List Detail records.

8. Run the Orphaned Address Utility (`uxaddrfix.p`) and set Update to No.

9. The report should indicate there are no orphaned utilities. Therefore no additional action is required.

Credit Terms Update Utility (uxcrterms.p)

All customers and suppliers must have a valid non-blank credit term. The Credit Terms Update Utility reports and optionally updates the specified records with a user-provided Credit Terms code.

10. Run the Credit Terms Update Utility (`uxcrterms.p`) for Customer records and set update to ‘No’.

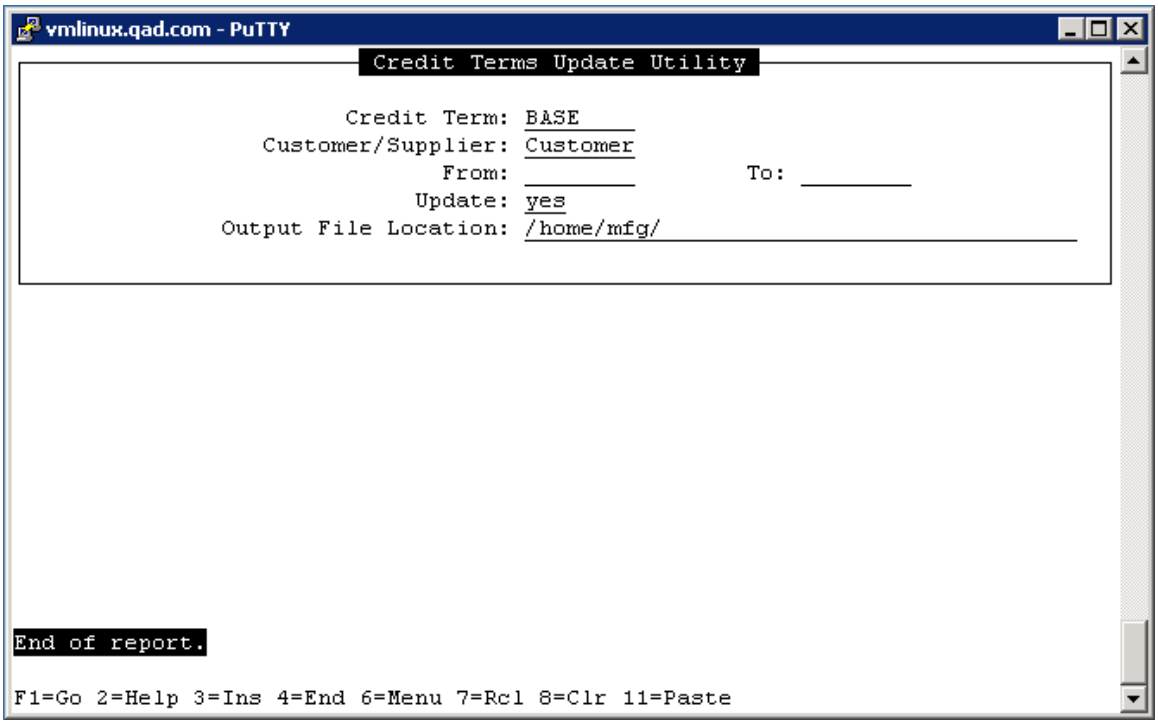
    a. Run the utility for Supplier records and set Update to No.

    b. Review both of the reports.

    c. Rerun the utility for Customers.

d. Enter a valid credit term (for example, ‘BASE’ or ‘60’) or create and use a new credit term (option 2.19.1 Credit Terms Maintenance).

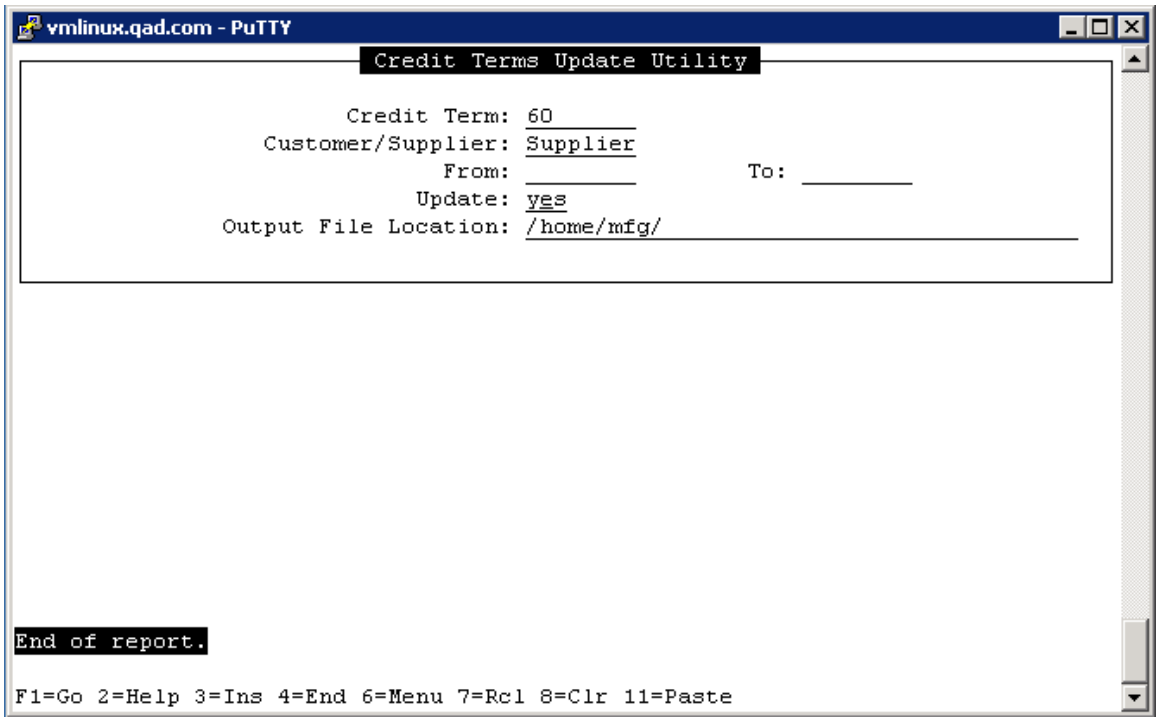
e. Set Update to Yes.



f. Rerun the utility for Suppliers.

g. Enter a valid credit term (for example, ‘BASE’ or ‘60’) or create and use a new credit term (option 2.19.1 Credit Terms Maintenance).

h. Set Update to Yes.



i. Rerun the data preparation report to verify these errors no longer appear (optional)

Country Code Utility (uxctryup.p)

QAD Enterprise Edition requires that all address records have a non-blank, valid country code. This utility reports offending records and optionally updates records with a user-provided value.

11. Run the Country Code Utility (`uxctryup.p`) and set Update to No.

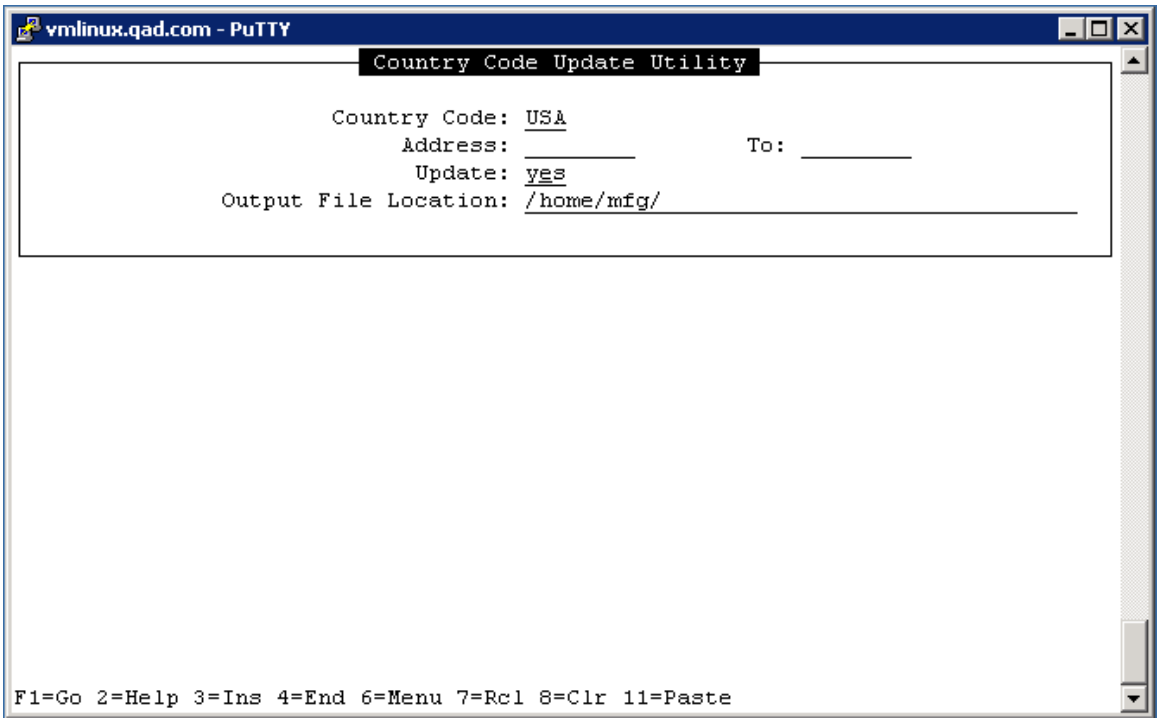
    a. Review the report.

    b. Correct the errors using the application or using the utility.

    c. To correct the errors using the application:

    - Use option 2.7.1 Employee Address Maintenance to correct the employee address errors (Address codes 2550, 8000, and 8001).
    - Use option 2.1.1 Customer Maintenance to correct the customer address errors (Address code 4020).
    - Use option 2.1.13 Customer Ship-to Maintenance to correct the ship-to address errors (Customer ATP1001:Ship-to 1, Customer 4020:Ship-to 4021).
    - Use option 2.3.1 Supplier Maintenance to correct the supplier address errors (Supplier code TRI-S5).
    - Use option 26.13 Bank Maintenance (Address code CN)

    d. To correct the errors using the utility, run the utility (`uxctryup.p`), set Update to Yes, and enter ‘USA’ as the Country code.



Tax ID utility (uxtaxid.p)

This utility reports duplicate or missing Federal Tax IDs and lists VAT registration IDs that do not comply with the ISO format.

12. Run the Tax ID Utility (`uxtaxid.p`).

    a. Run the utility with the following values:

       Do you use 1099 Reporting = 'No'

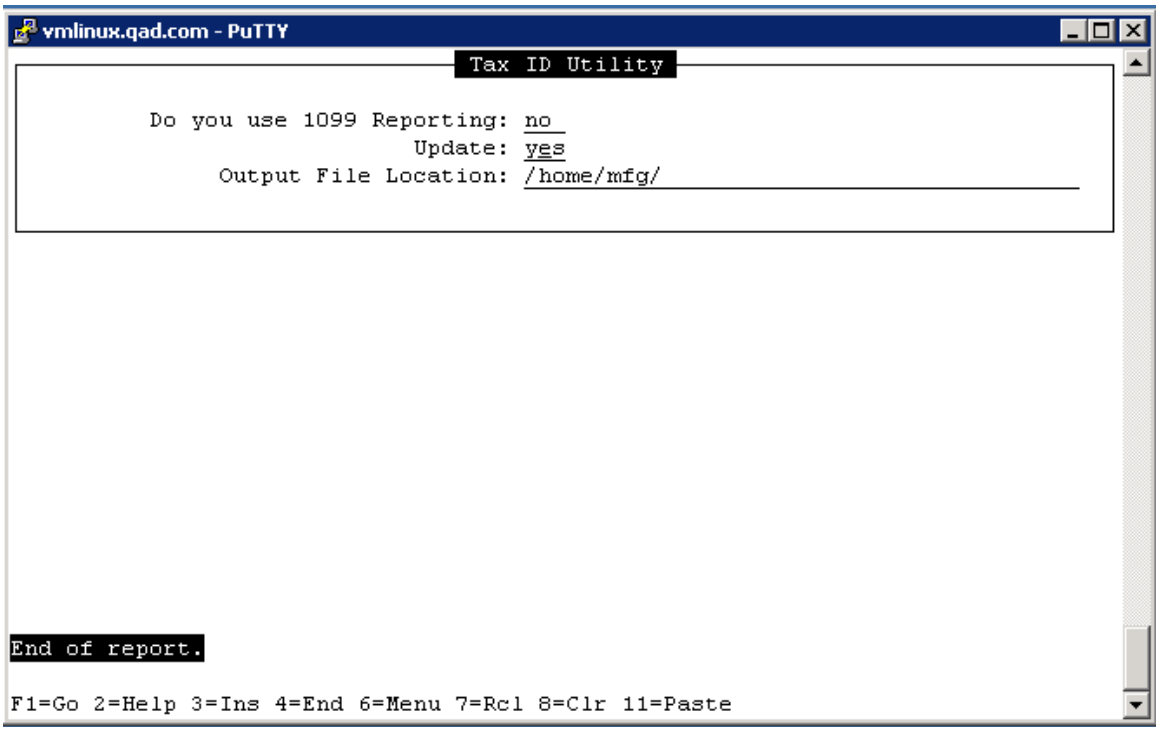
       Update = 'No'

    b. View the report output.

    c. For this exercise, re-run the utility with the following values:

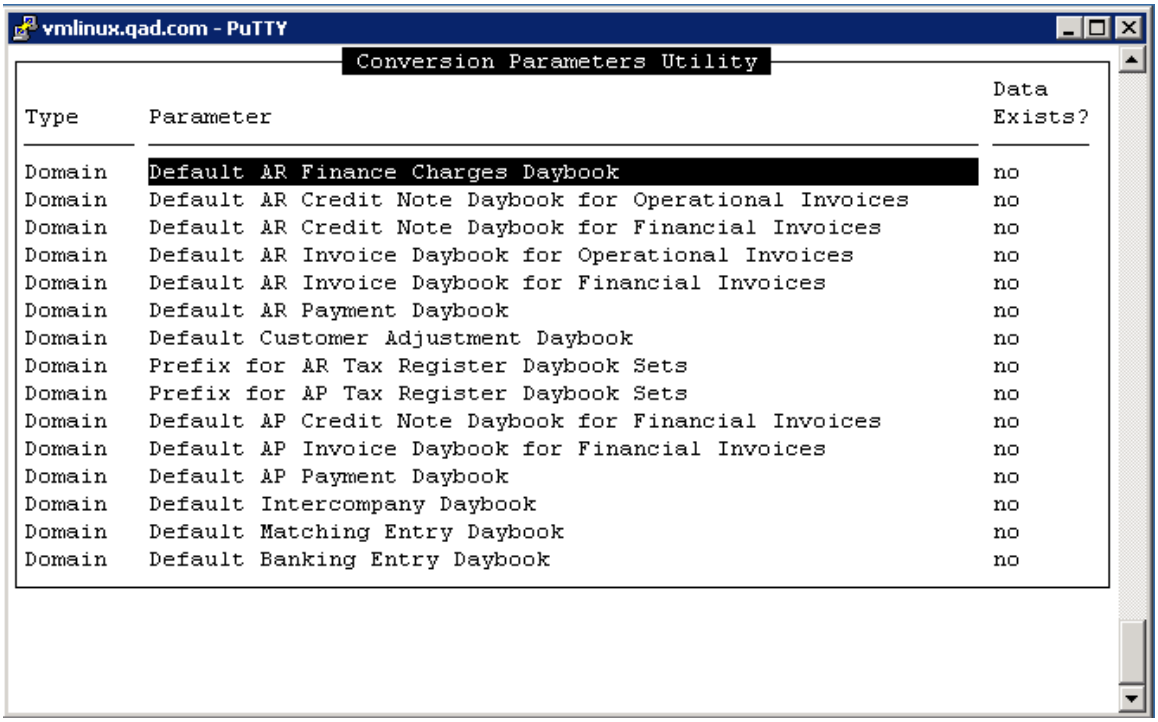
       Do you use 1099 Reporting = 'No'

       Update = 'Yes'



13. Run the Conversion Parameters Utility (`utfinpar.p`).

    This utility prompts for the values to be used during the conversion when creating new financial objects.



Note: The decision on which values to choose for these parameters typically requires in-depth knowledge of the financial setup of how the system will be used going forward.

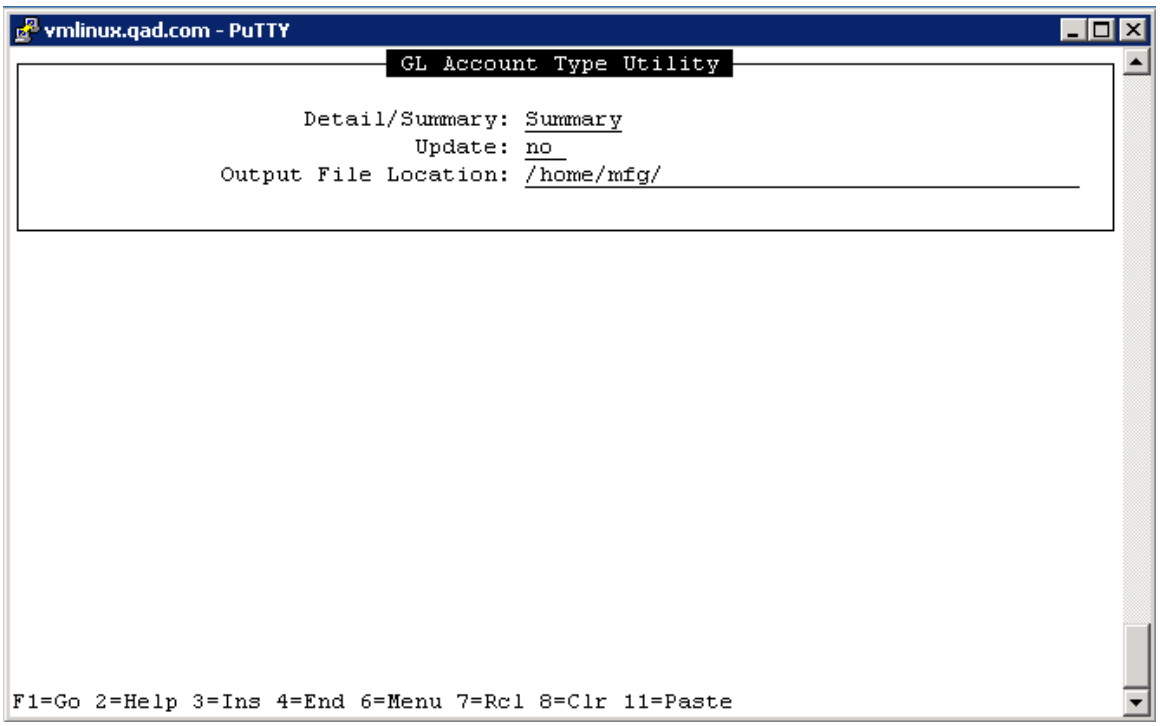
For this exercise, we will use new values. See the table below. The values provided in this table are sample values and do not follow any particular format.

Level	Parameter	Value
Domain	Default AR Finance Charges Daybook	DARFCD
Domain	Default AR Credit Note Daybook for Operational Invoices	DARCNDO
Domain	Default AR Credit Note Daybook for Financial Invoices	DARCNDF
Domain	Default AR Invoice Daybook for Operational Invoices	DARIDO
Domain	Default AR Invoice Daybook for Financial Invoices	DARIDF
Domain	Default AR Payment Daybook	DARPD
Domain	Default Customer Adjustment Daybook	DCAD
Domain	Prefix for AR Tax Register Daybook Sets	ARTX
Domain	Prefix for AP Tax Register Daybook Sets	APTX
Domain	Default AP Credit Note Daybook for Financial Invoices	DAPCNF
Domain	Default AP Invoice Daybook for Financial Invoices	DAPIDF
Domain	Default AP Payment Daybook	DAPPD
Domain	Default Intercompany Daybook	DICD
Domain	Default Matching Entry Daybook	DMED
Domain	Default Banking Entry Daybook	DBED
Domain	Default Inventory Daybook	DINVD
Domain	Default Work Order Daybook	DWOD
Domain	Default Sales Order Daybook	DSOD
Domain	Default Fixed Assets Daybook	DFAD
Domain	Default Daybook for Journal Entries	DDJE
Domain	Default Daybook Sequence Effective Date (MM/DD/YYYY)	<current date>
Domain	Account for Posting Balances	AccPB
Domain	Account for Year-End Balances	AccYEB
Domain	Account for Current Year Income Offset	AccCYIO
Domain	Account for Results of Previous Years	AccRPY
Domain	Account for Unmatched Invoices	AccUInv
Domain	Default Sub-Account	DSAcc
Domain	Default Cost Center	DCC
Domain	Default Project	DProj
Domain	Default Credit Term	BASE
Domain	Convert Unused Cashbooks?	No
Domain	Create Entity Tax Periods?	YES
System	Reporting Currency	USD
System	Country for default Tax Box	USA
System	Convert existing security setup?	No

GL Account Type Utility (uxglacup.p).

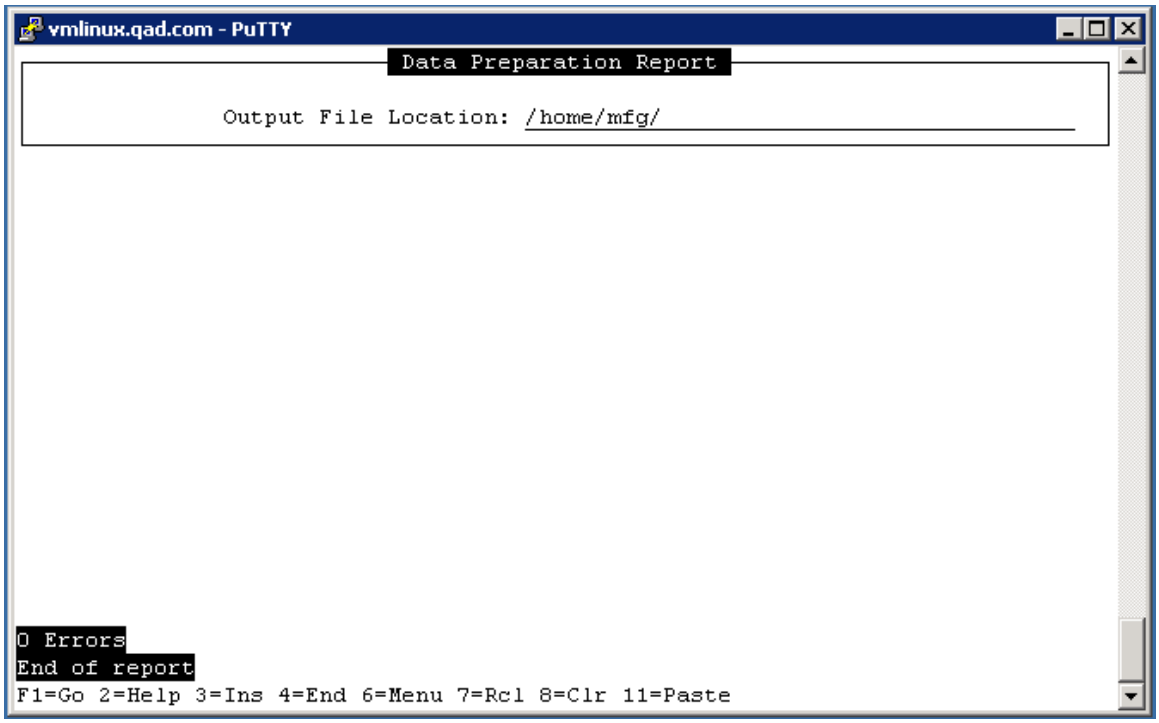
The GL Account Utility identifies GL accounts in static data (not transactional data) where the account definitions are not compatible with Enterprise Edition Financials. Please refer to the *QAD Enterprise Edition Conversion Guide* for additional information.

14. Run the GL Account Type Utility (`uxglacup.p`).
    a. Set Update to No and Detail/Summary to Detail.
    b. Review the resulting report.



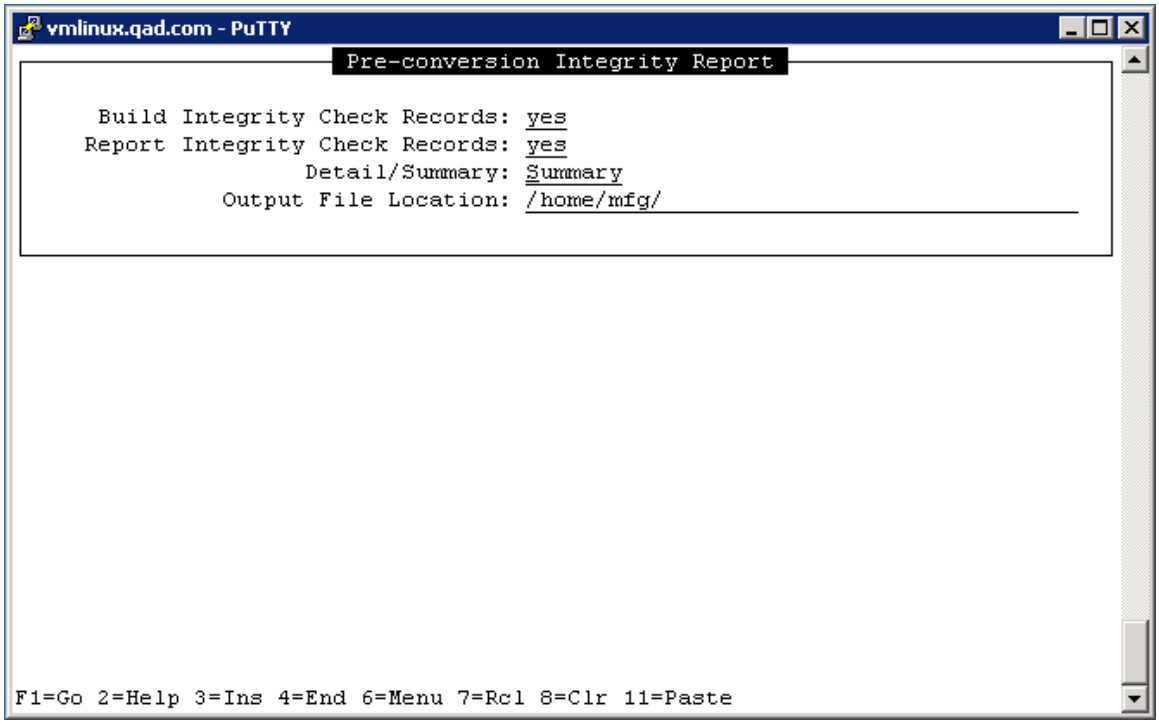
    c. Run the GL Account Type Utility (`uxglacup.p`). Set update to Yes and Detail/Summary to Summary. See *Lab 1 Reference – Running the GL Account Type Utility*.

15. Switch to Domain2 (option 36.10.13 Change Current Domain).
16. Run the Conversion Parameters Utility (`utfinpar.p`) and enter the conversion parameters.
17. Run the GL Account Type Utility (`uxglacup.p`). Set update to Yes and Detail/Summary to Summary. Correct any conflicts.
18. Rerun the Data Preparation Report (`gpdatarp.p`).
    a. Correct any remaining errors.
    b. When all errors have been corrected, the data preparation report should report with zero errors – see screenshot below.



19. Run Pre-conversion Integrity Report (`gpinckrp.p`).

    a. Run once both Summary and Detail.



    b. Review the report output.

Back Up the Prepared eB2.1 Databases

Once all the data preparation errors have been corrected and the data preparation report executes with no errors, then the database is ready to be converted.

1. Exit the application.
2. Take a backup of both the mfgprod and admprod databases and locate them in the “/dbs/rdy2conv” directory:

```
$ cd /dbs
$ ./stop.ConvQA
$ probkup mfgprod /dbs/rdy2conv/mfgprod_rdy2conv.bkup
$ probkup admprod /dbs/rdy2conv/admprod_rdy2conv.bkup
```

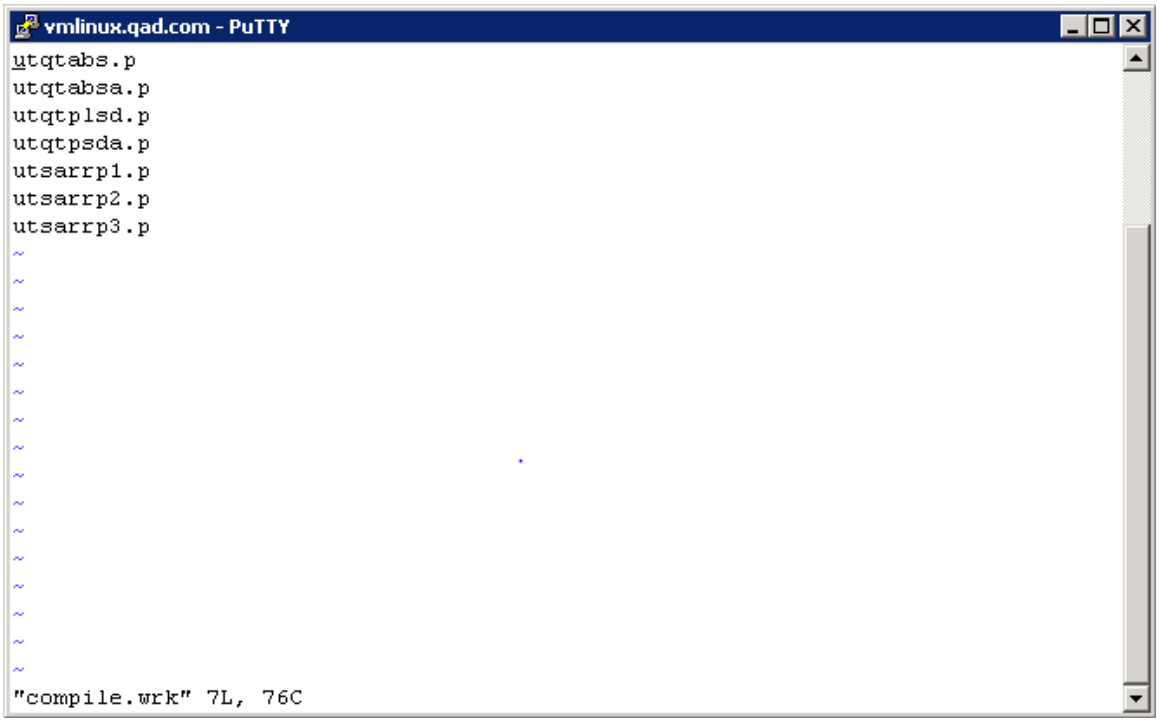
Lab 1 Reference - Compiling Table Extension Domain Utilities

1. Create a compile list file named `compile.wrk` in `/dbs/preconvrep/us/ut`:

```
$ cd /dbs/preconvrep/us/ut
```

2. Insert the following procedure names:

```
utqtabs.p, utqtabsa.p, utqtplsd.p, utqtpsda.p, utsarrp1.p, utsarrp2.p,
utsarrp3.p
```



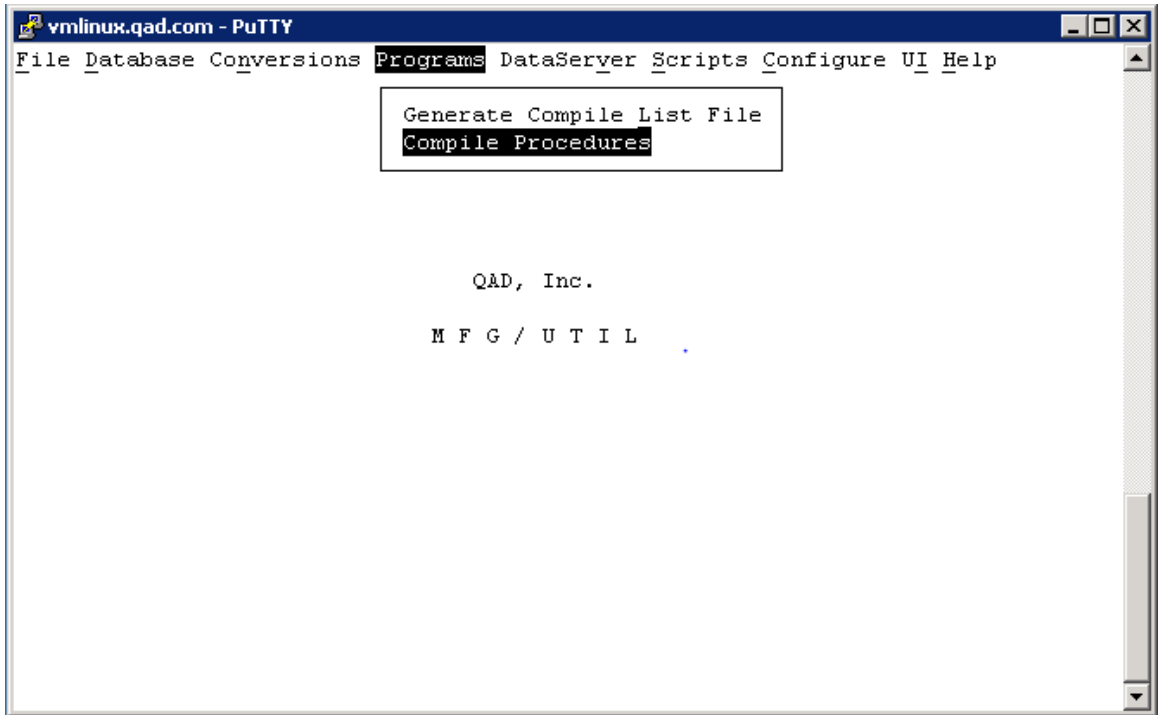
3. Using MFGUTIL, compile the pre-conversion utilities:

a. `$ cd /qadapps/erp`

b. `$ ./mfgutil`

c. Select --> Programs

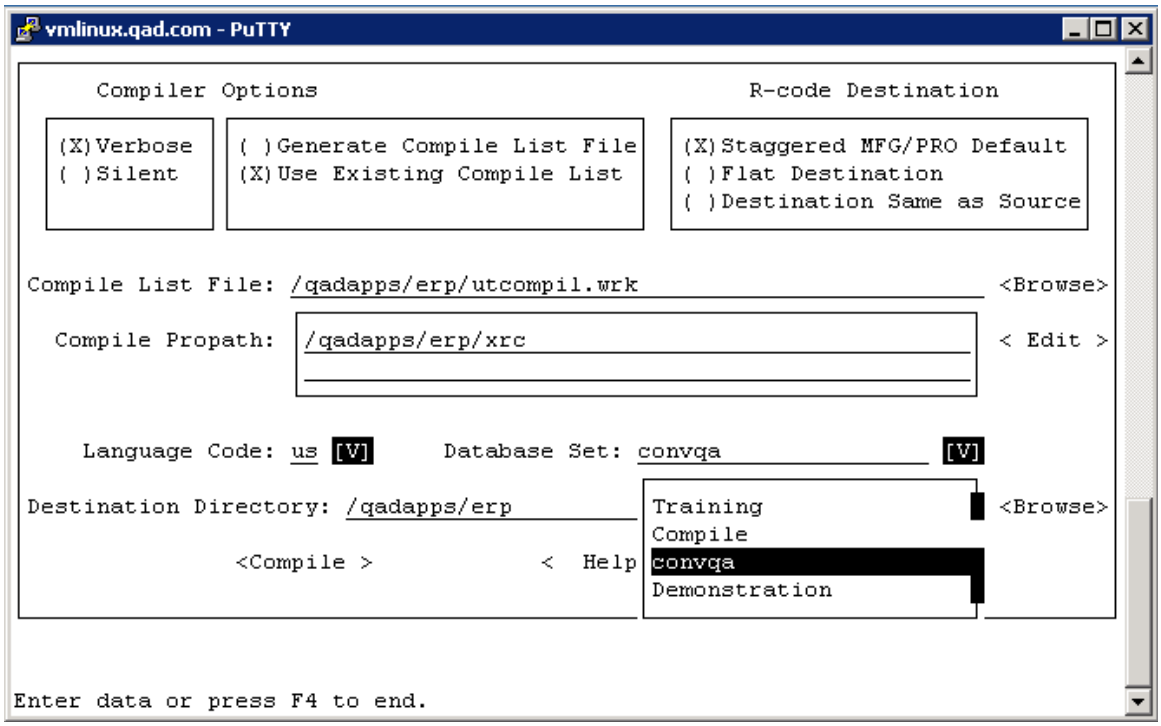
d. Select --> Compile Procedures



4. Edit the following Compiler Options:

   a. Set the Database set to the “convqa”:

   Note: It is worth changing the Database Set value first as doing so resets the values in the Compile List file and Compile Propath fields.



b. Set the Compile file list to the `compile.wrk` file created earlier.

   `/dbs/preconvrep/us/ut/compile.wrk`

c. Set R-code Destination to “Staggered MFG/PRO Default”.

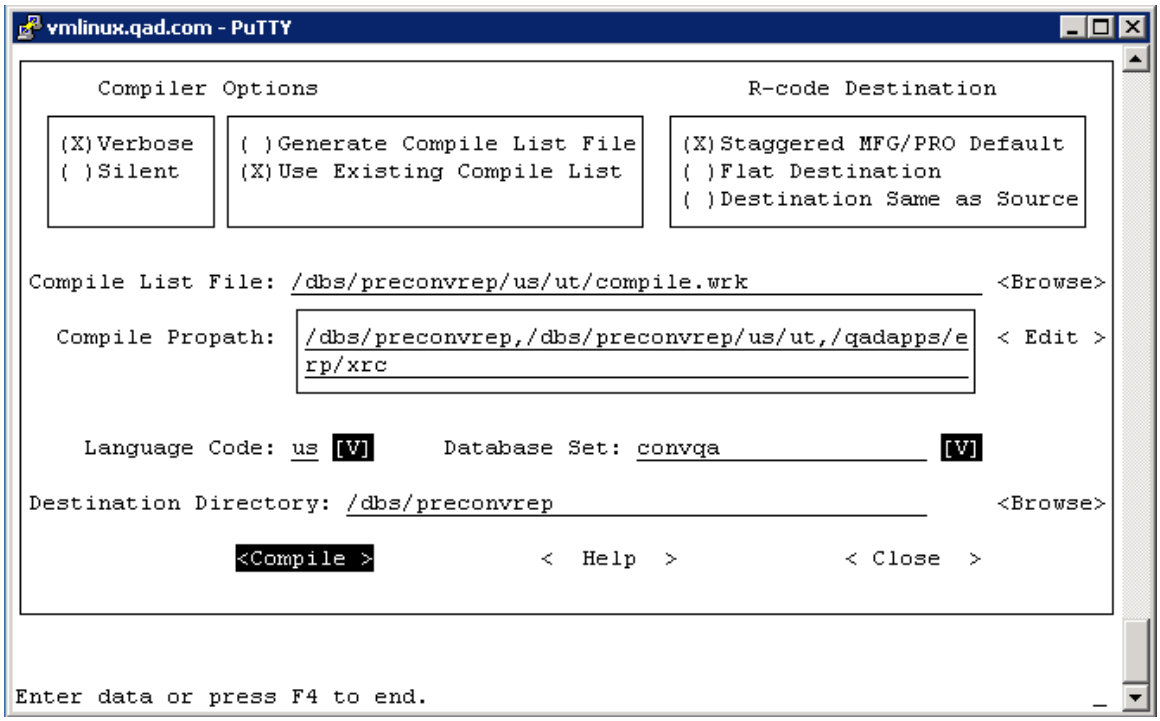
d. Set the Compile Propath to include the directory where the pre-conversion code is installed and the us/ut sub-directory.

   `/dbs/preconvrep`

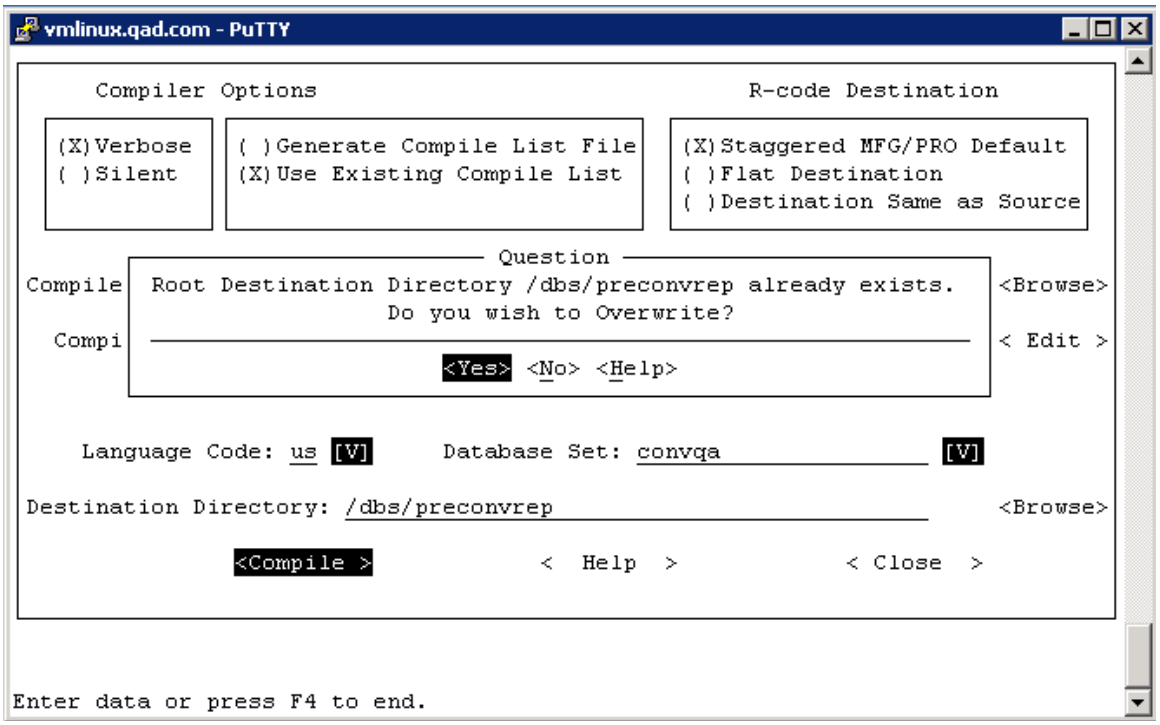
   `/dbs/preconvrep/us/ut`

e. Set the Destination Directory to:

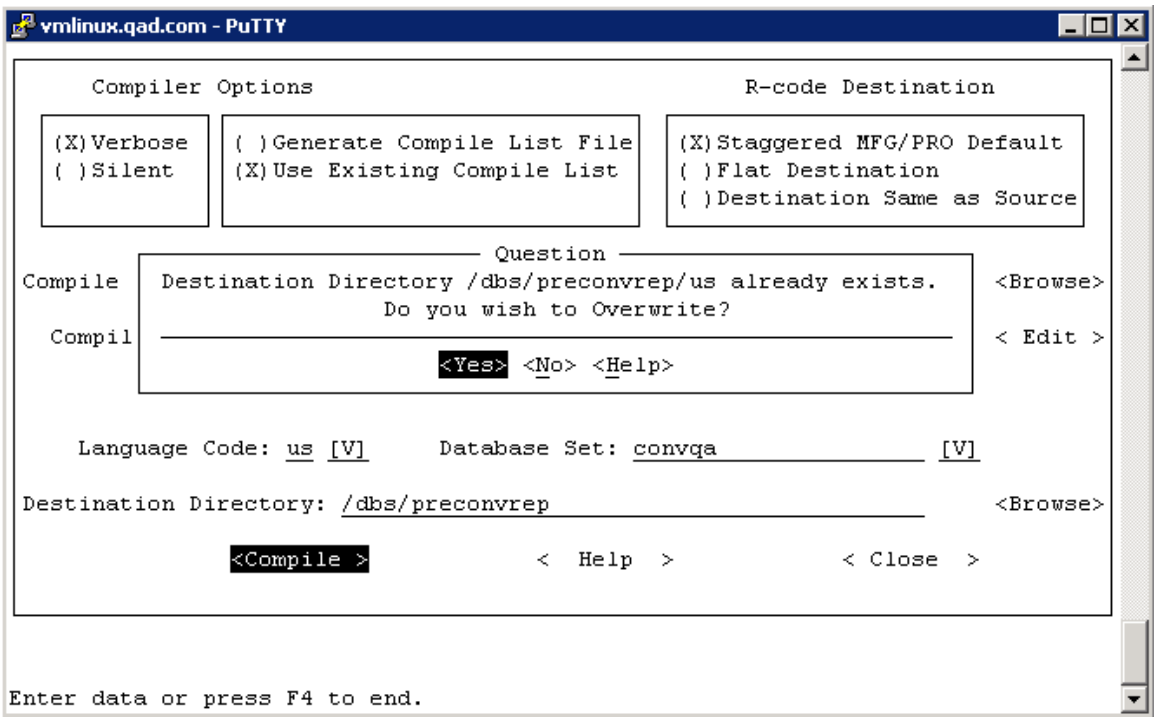
   `/dbs/preconvrep`



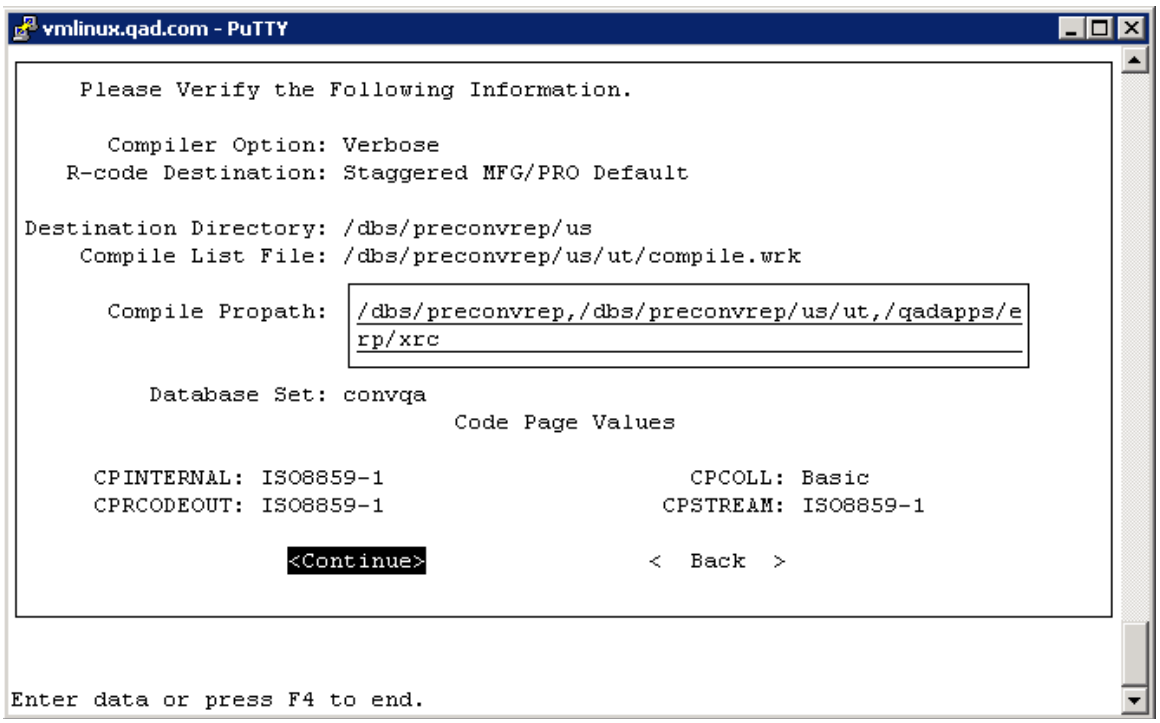
f. Select <Compile> and verify the details are correct.

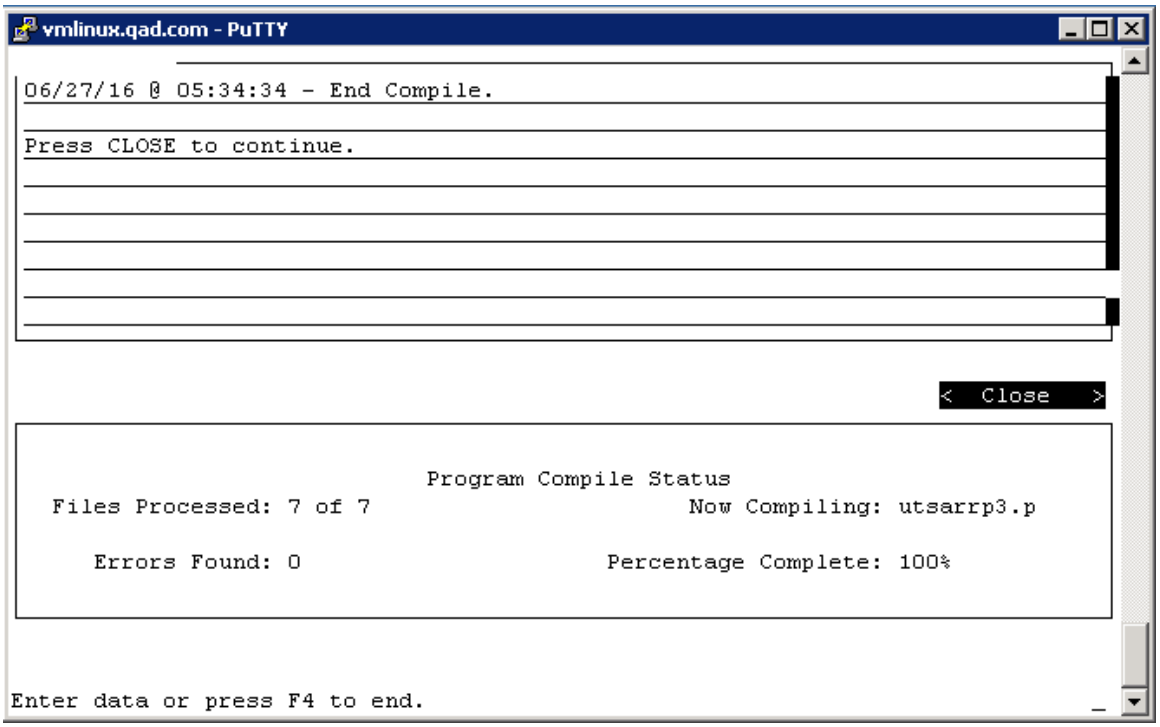


g. Select “Yes”.



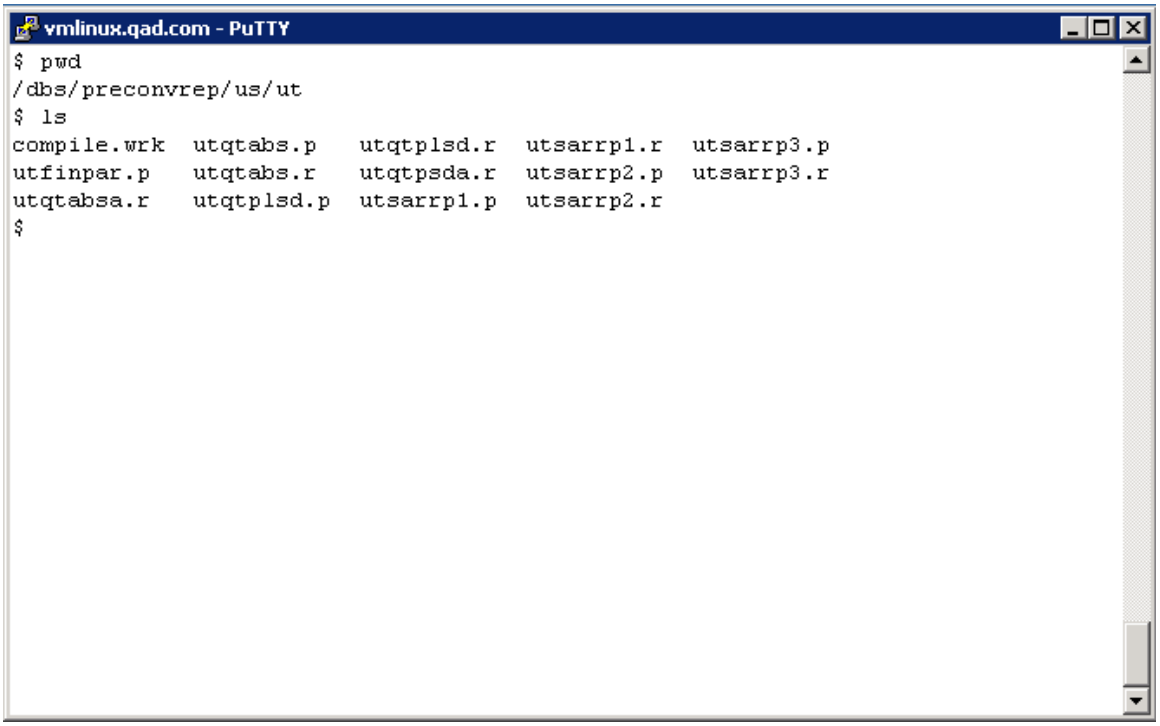
h. Select <Continue>. The procedures should compile with out errors.





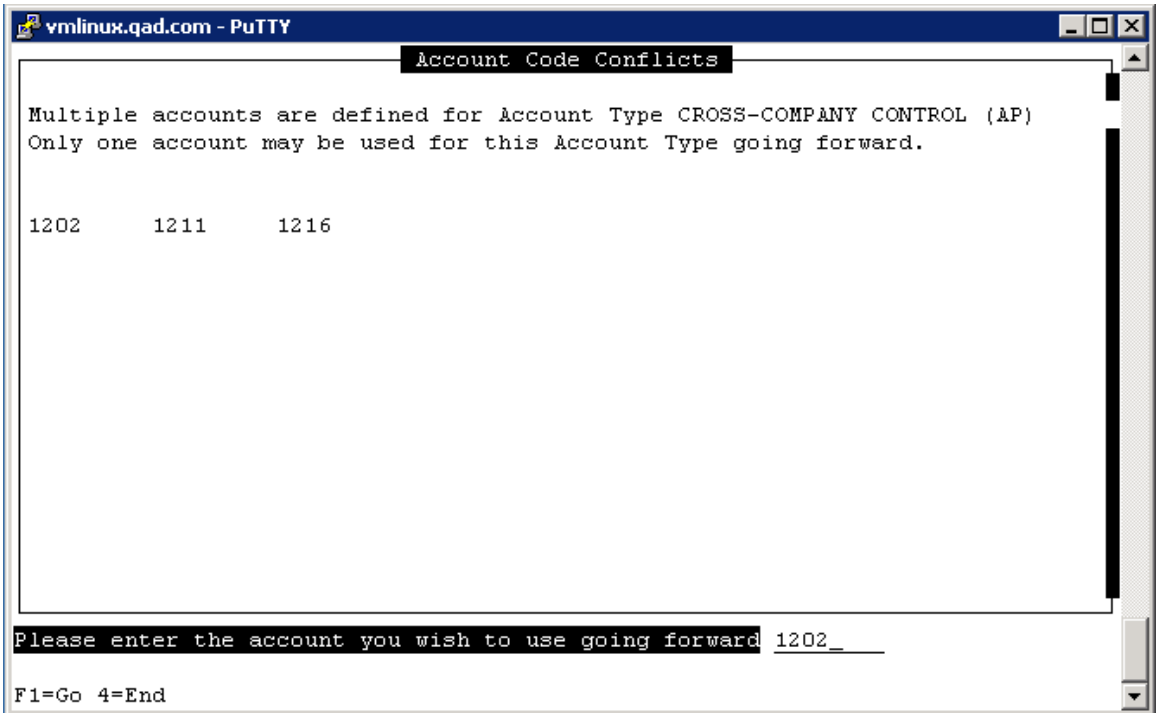
i. Exit mfgutil.

j. Verify all 7 .r files exist in the `/dbs/preconvrep/us/ut` directory.

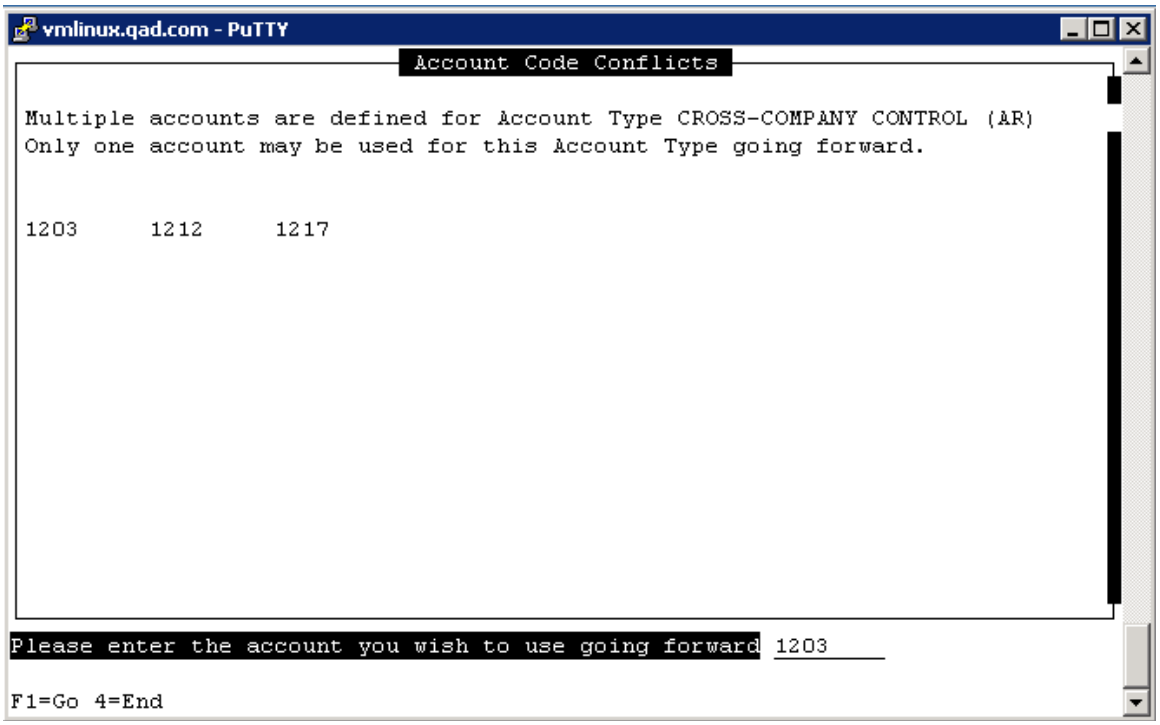


Lab 1 Reference – Running the GL Account Type Utility

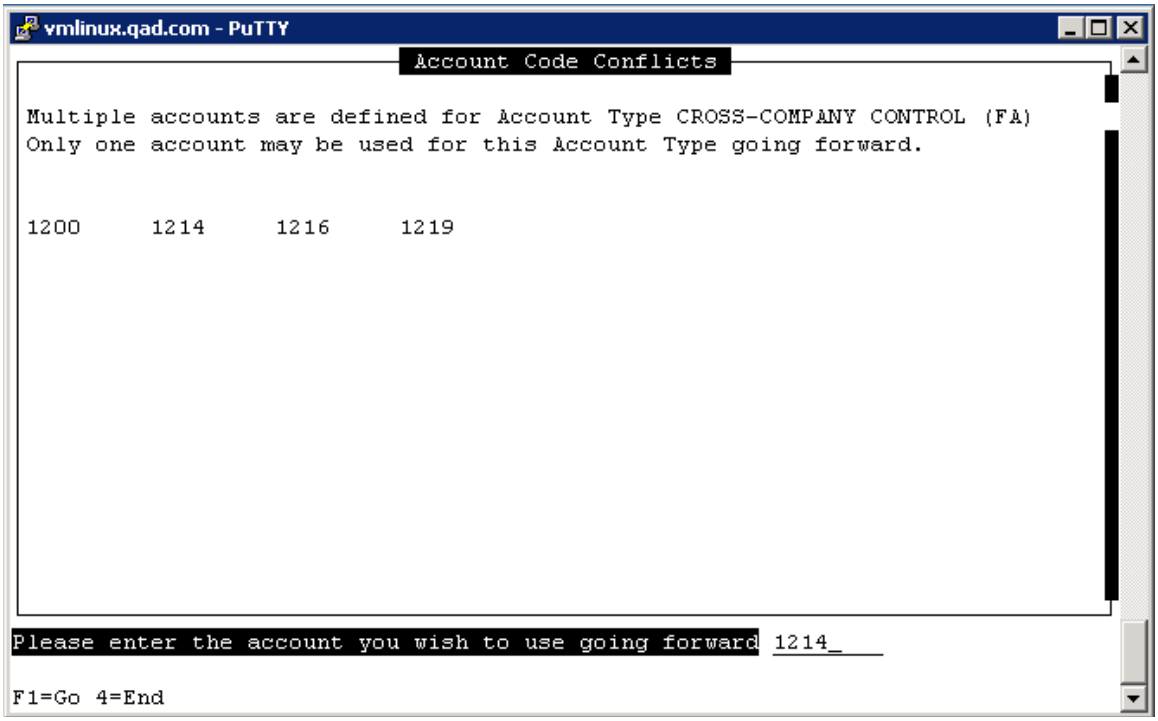
1. Select the first account type that needs to be corrected in Cross-Company Control (AP) account. Select any one of the specified accounts or enter a new account.



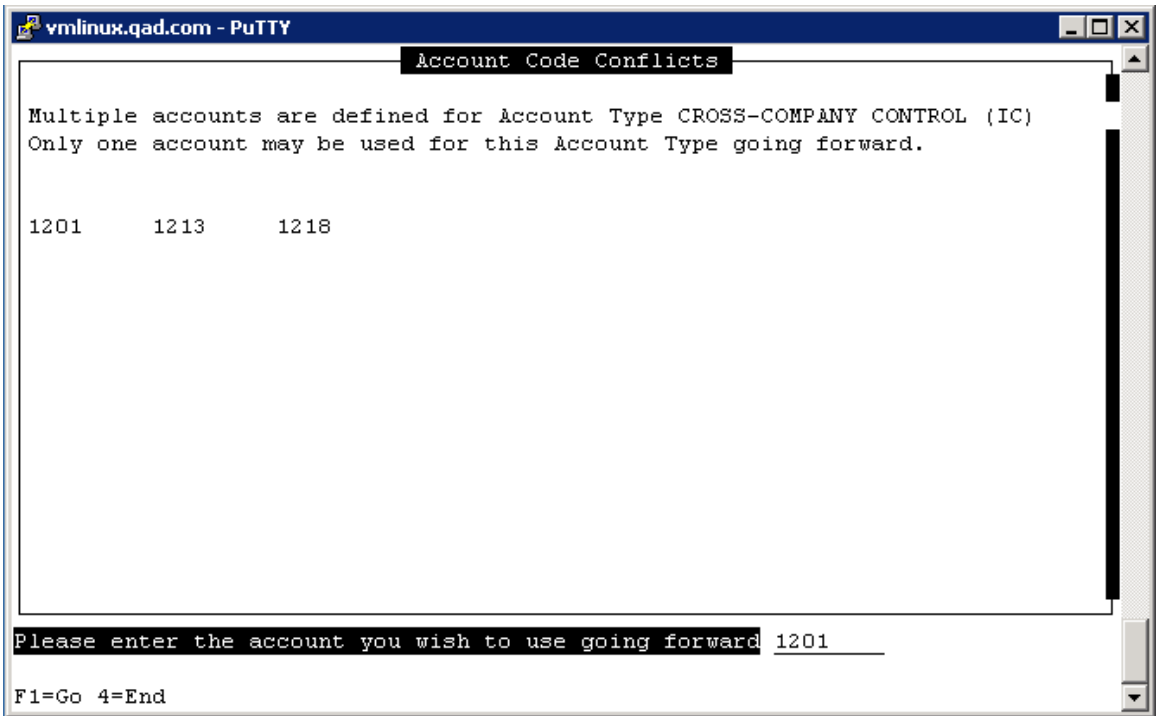
2. Next, select an account for Cross-Company Control (AR). Select any one of the specified accounts or enter a new account.



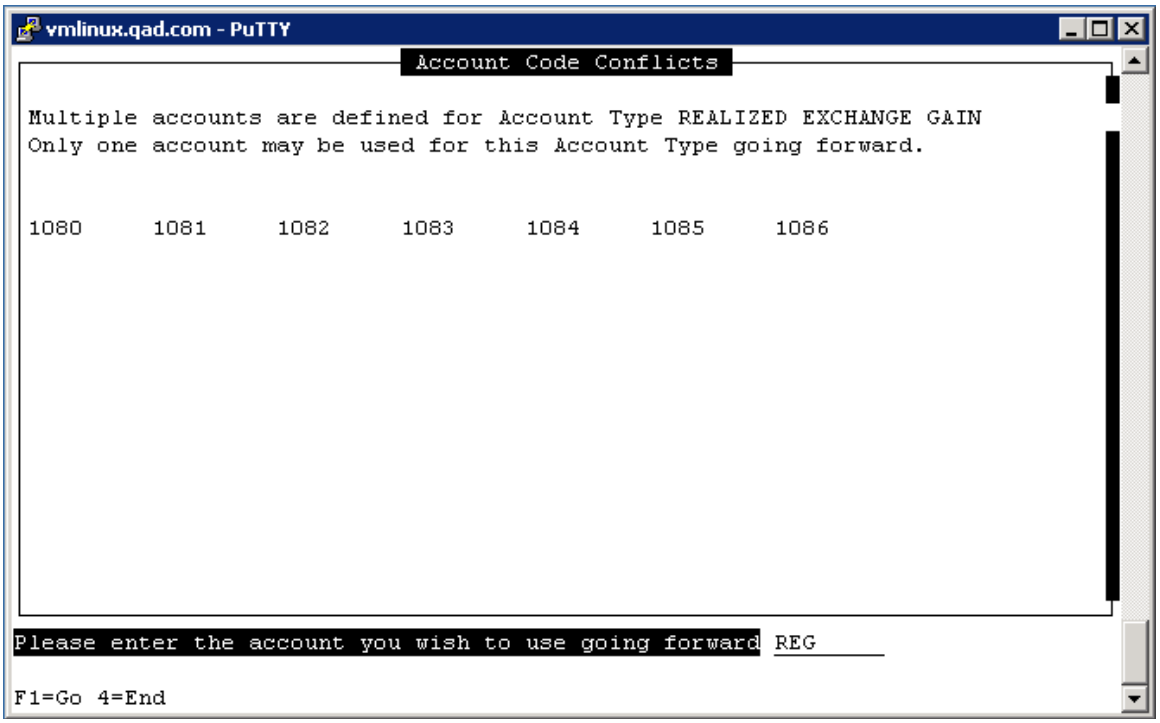
3. Next, select an account for Cross-Company Control (FA). Select any one of the specified accounts or enter a new account.



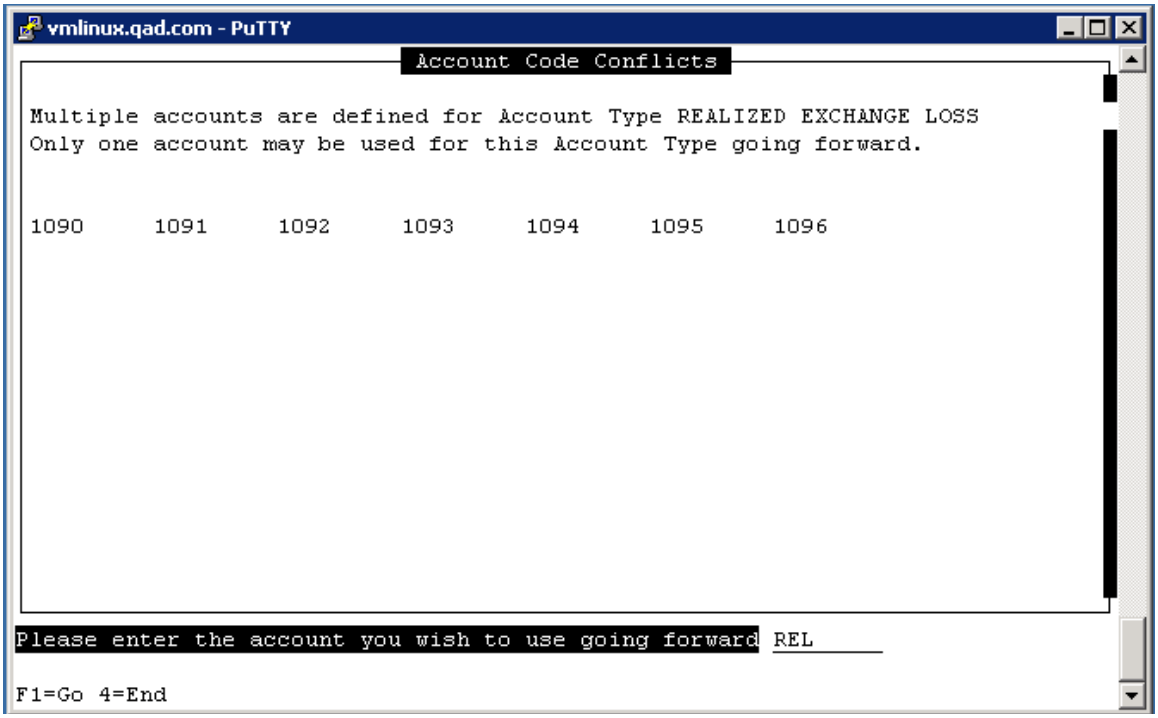
4. Next, select an account for Cross-Company Control (IC). Select any one of the specified accounts or enter a new account.



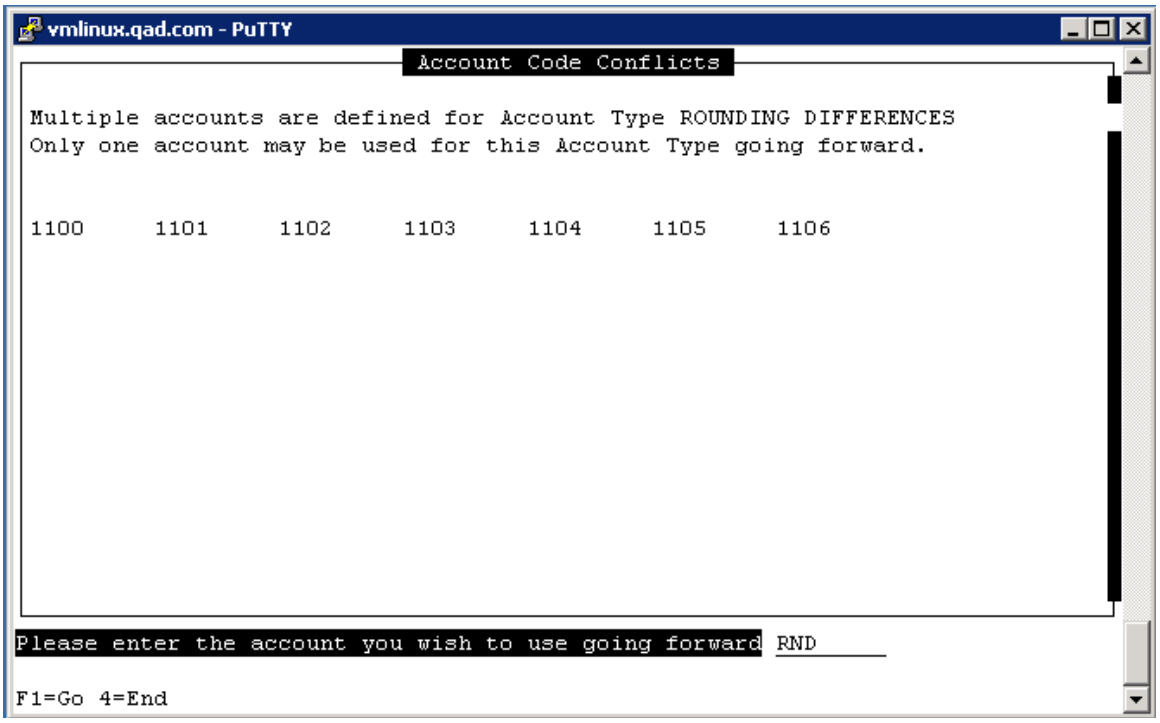
5. Next, select an account for Realized Exchange Gain. Select any one of the specified accounts or enter a new account.



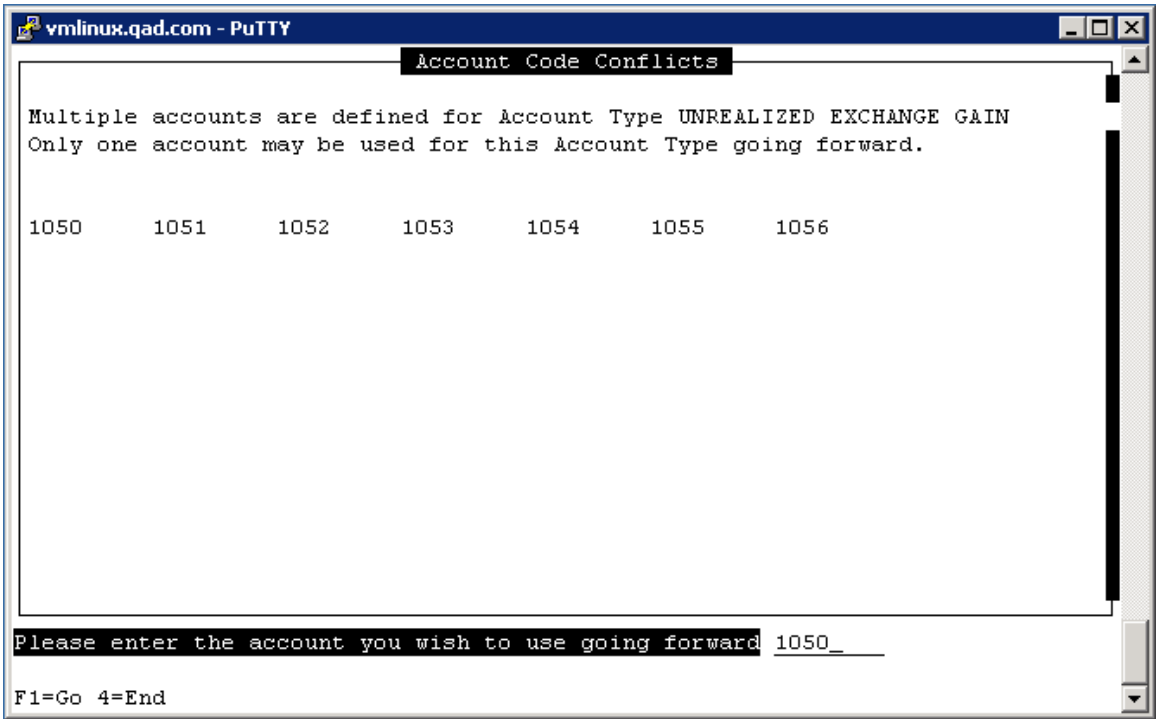
6. Next, select an account for Realized Exchange Loss. Select any one of the specified accounts or enter a new account.



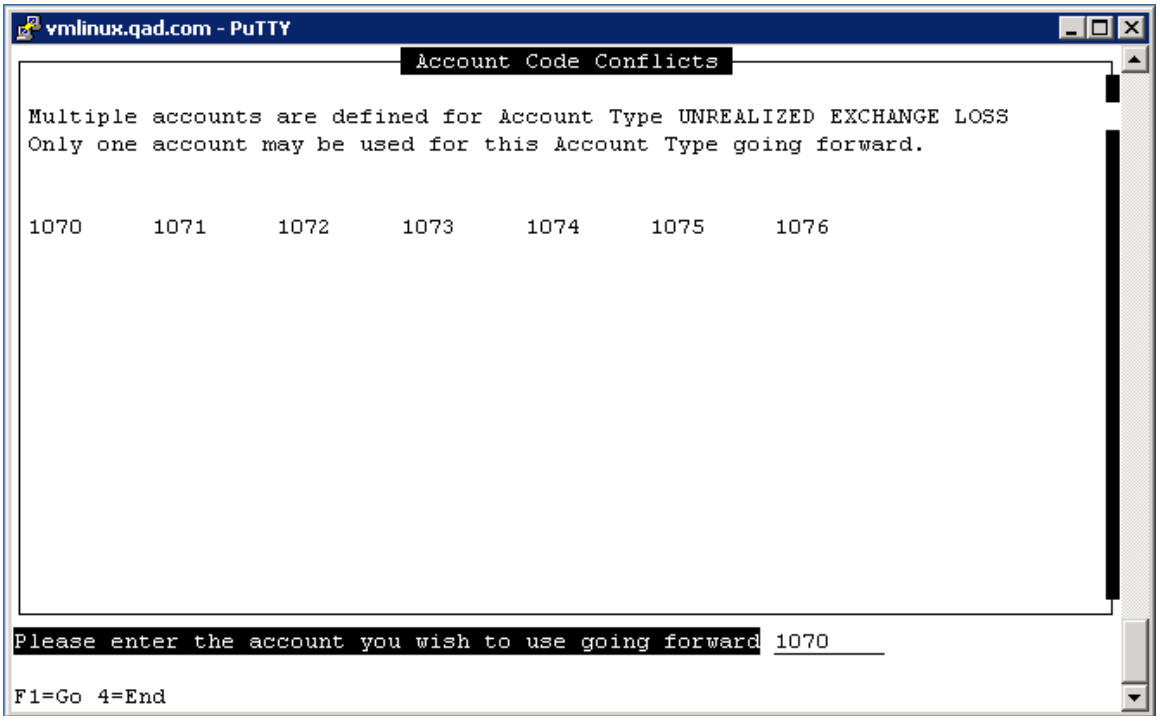
7. Next, select an account for Rounding Differences. Select any one of the specified accounts or enter a new account.



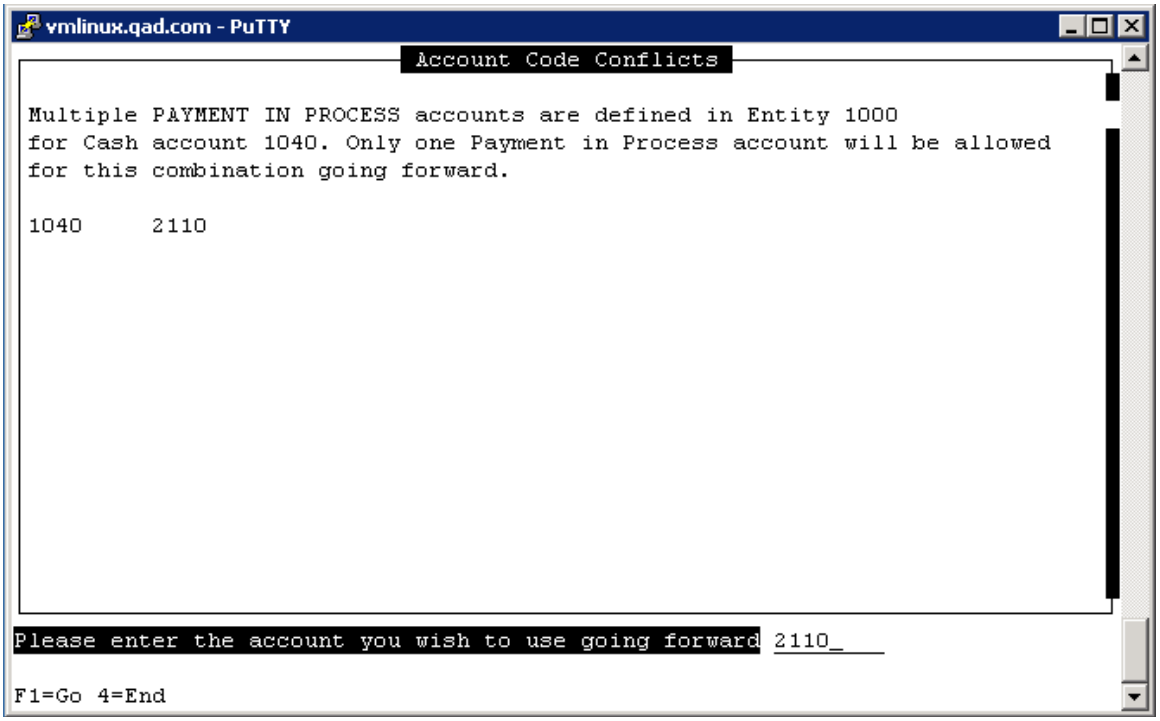
8. Next, select an account for Unrealized Exchange Gain. Select any one of the specified accounts or enter a new account.



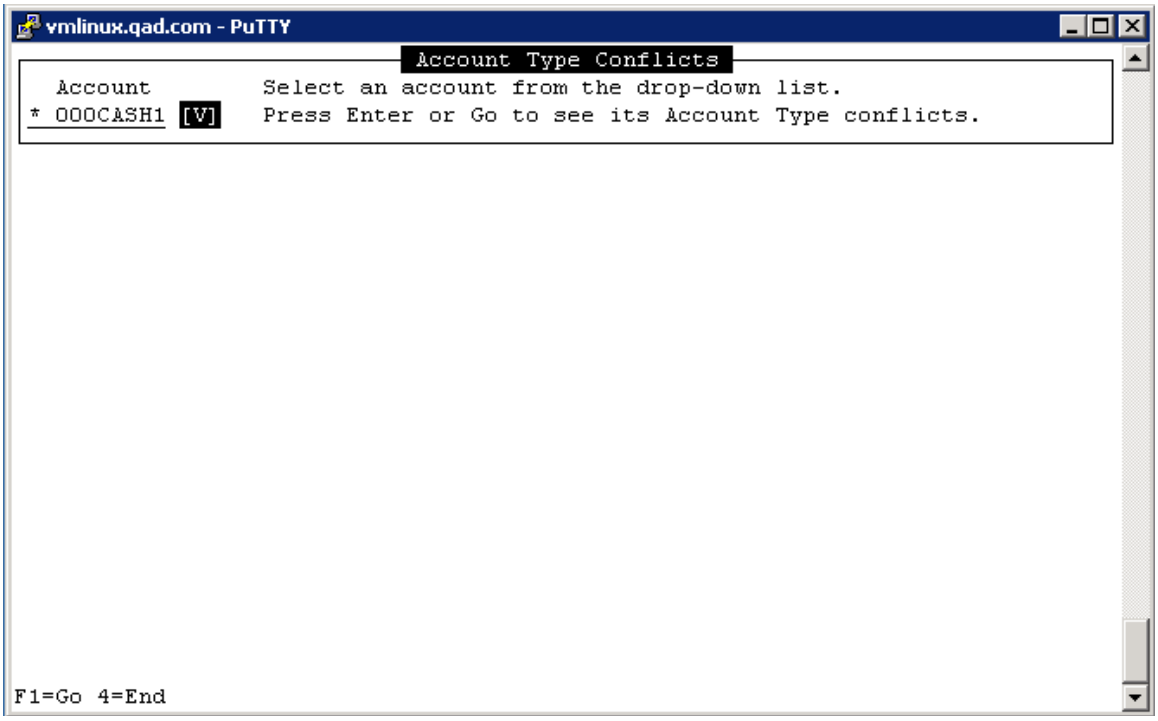
9. For Domain1 use ‘1050’, and for Domain2 use ‘UEG’.
10. Next, select an account for Unrealized Exchange Loss. Select any one of the specified accounts or enter a new account.



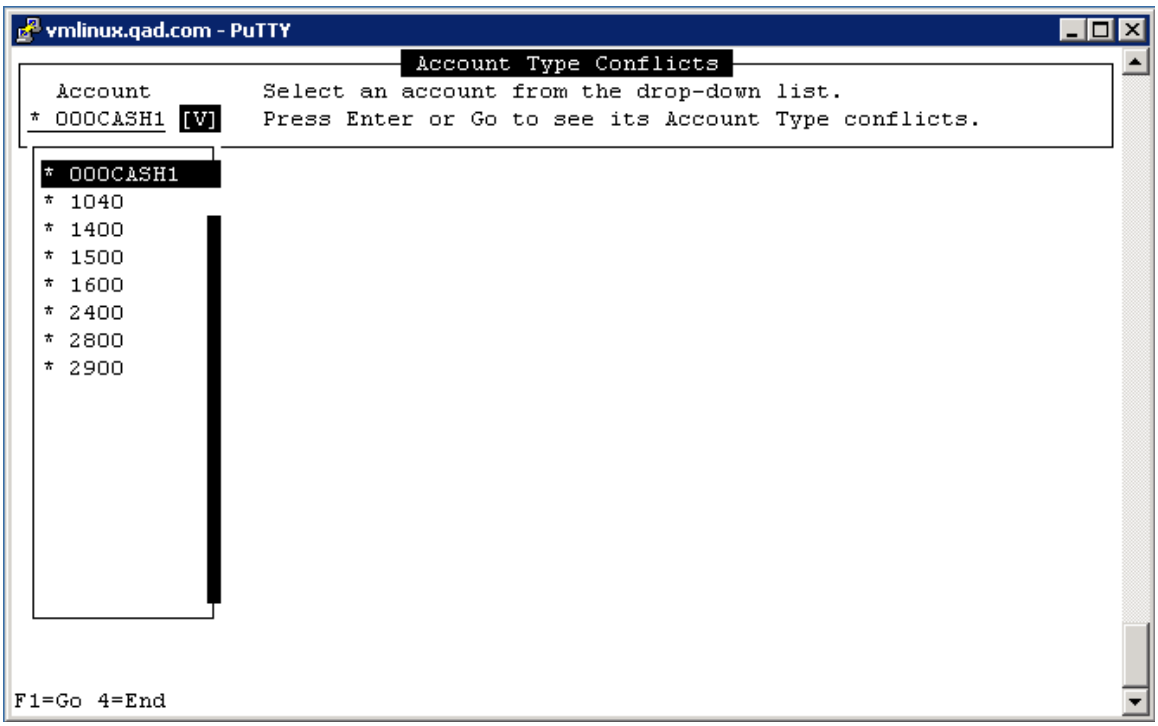
11. Next, select an account for Payment in Process. Select any one of the specified accounts or enter a new account.



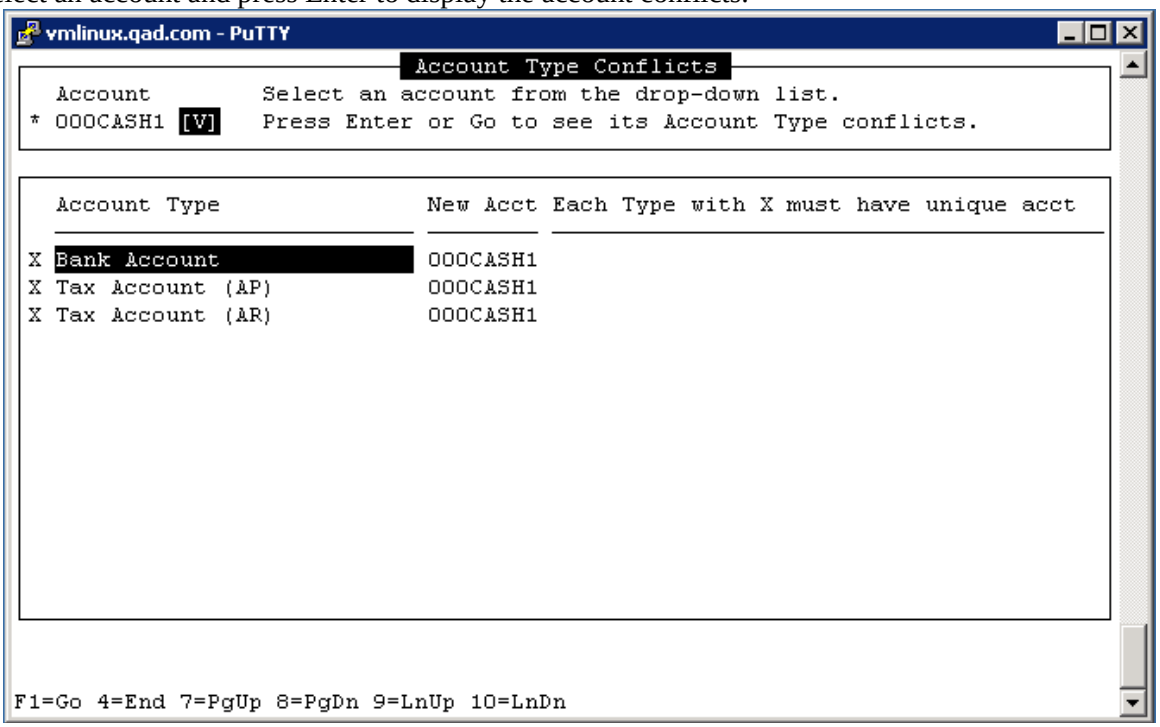
12. The following section of the GL Account type utility requires the user to review and correct each account with account type conflicts. This is done by iterating through each account shown in the account dropdown list.



13. Press [cursor down] to display the drop-down list.



14. Select an account and press Enter to display the account conflicts.

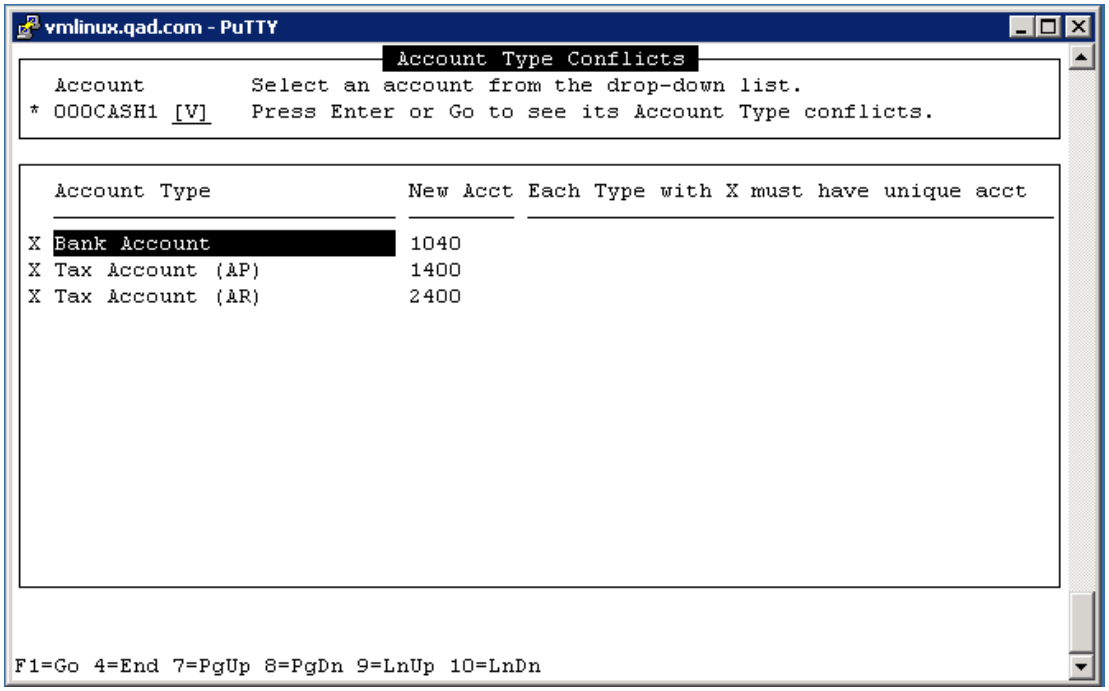


15. Remove conflicts by correcting any duplicate instances where an account is being used.

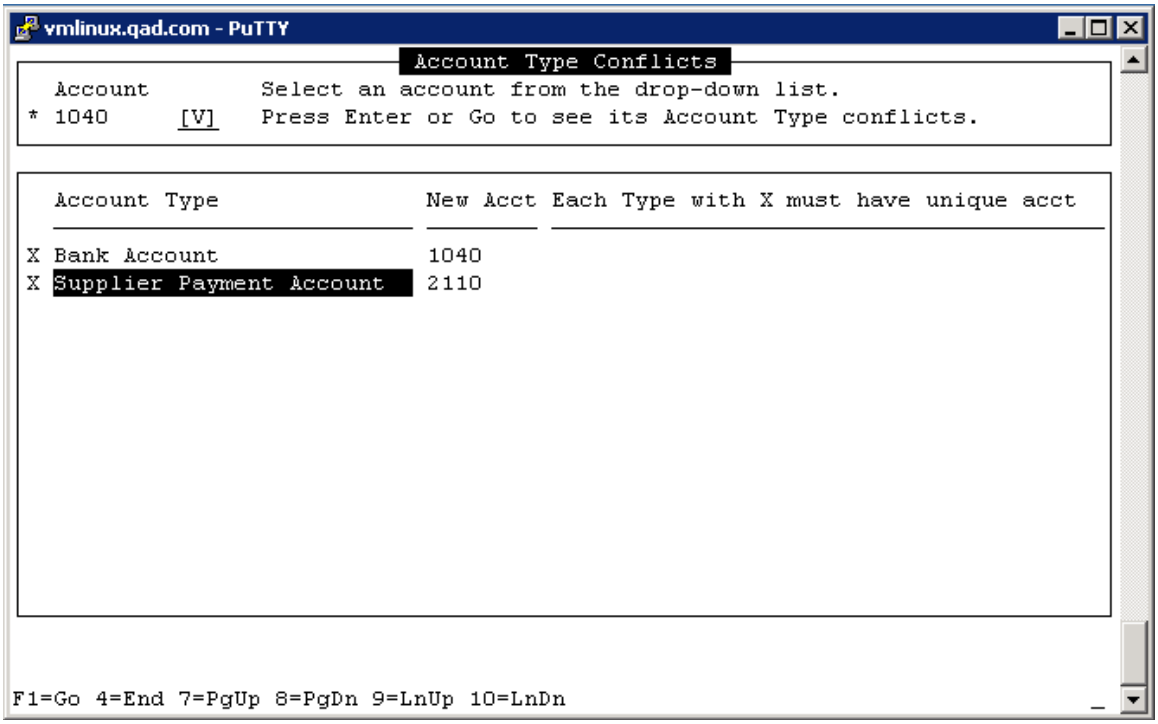
16. Repeat steps 12-15 for all accounts specified in the drop-down list. The screens below show suggested replacement values.

Account “000CASH1”

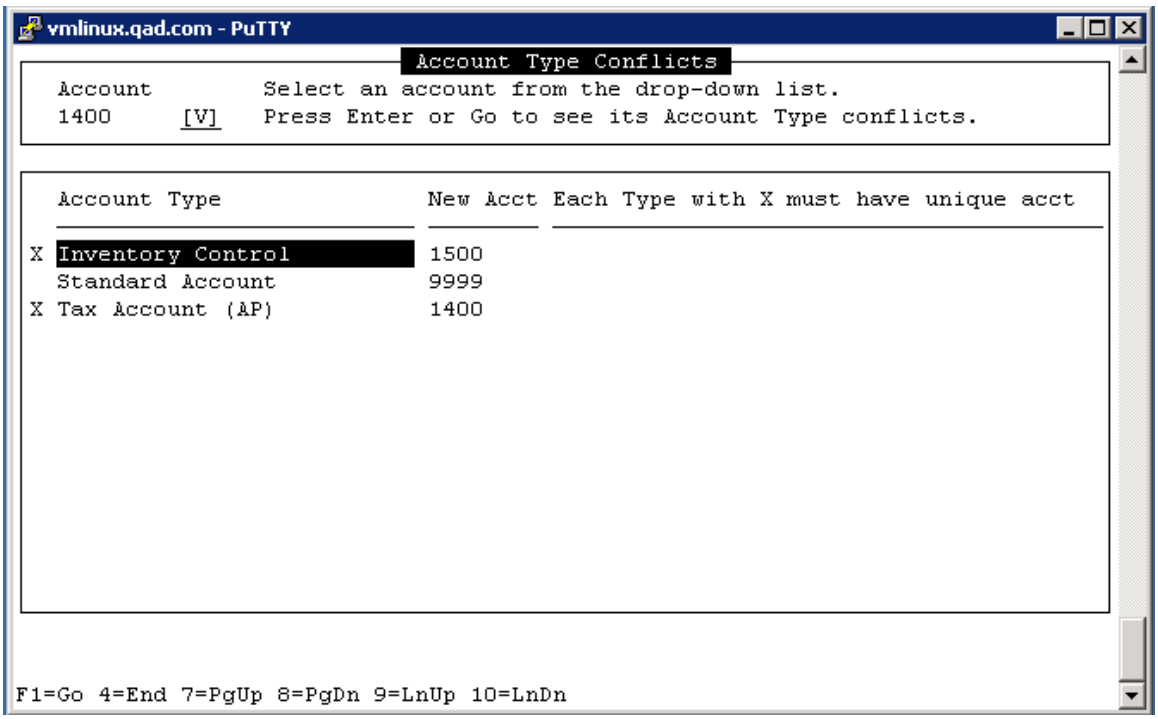
Note: You will need to correct conflicts for accounts “1040”, “1400” and “2400” before using the values shown in the screenshot below:



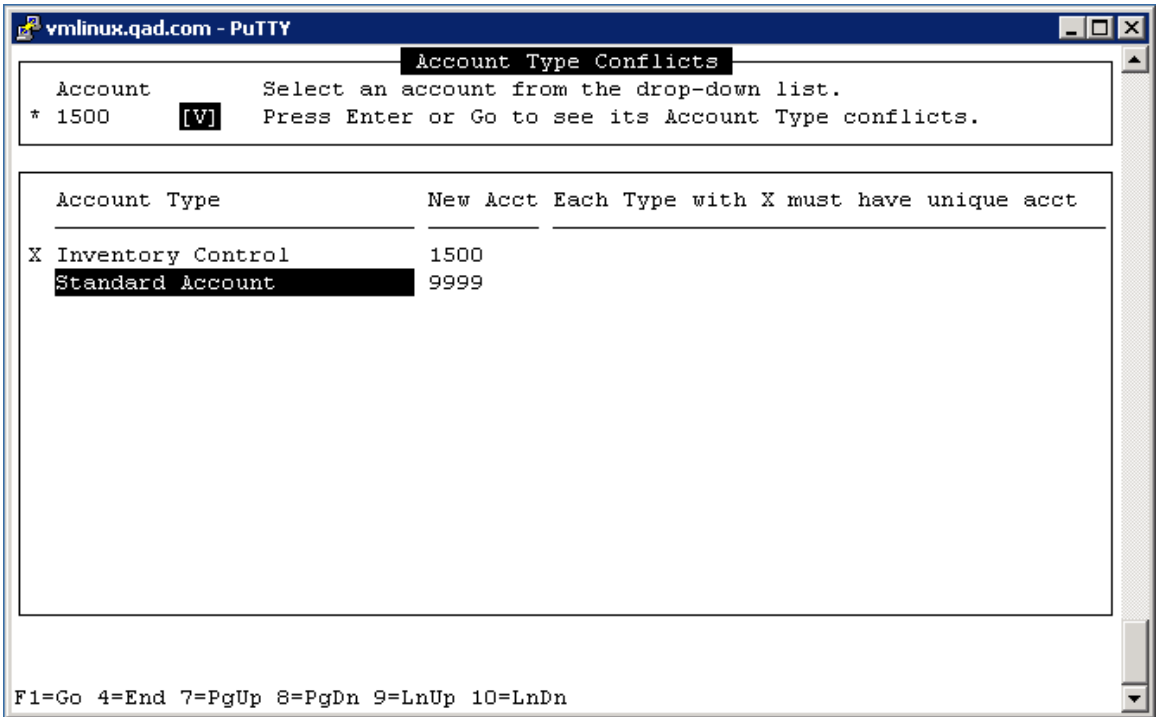
Account “1040”:



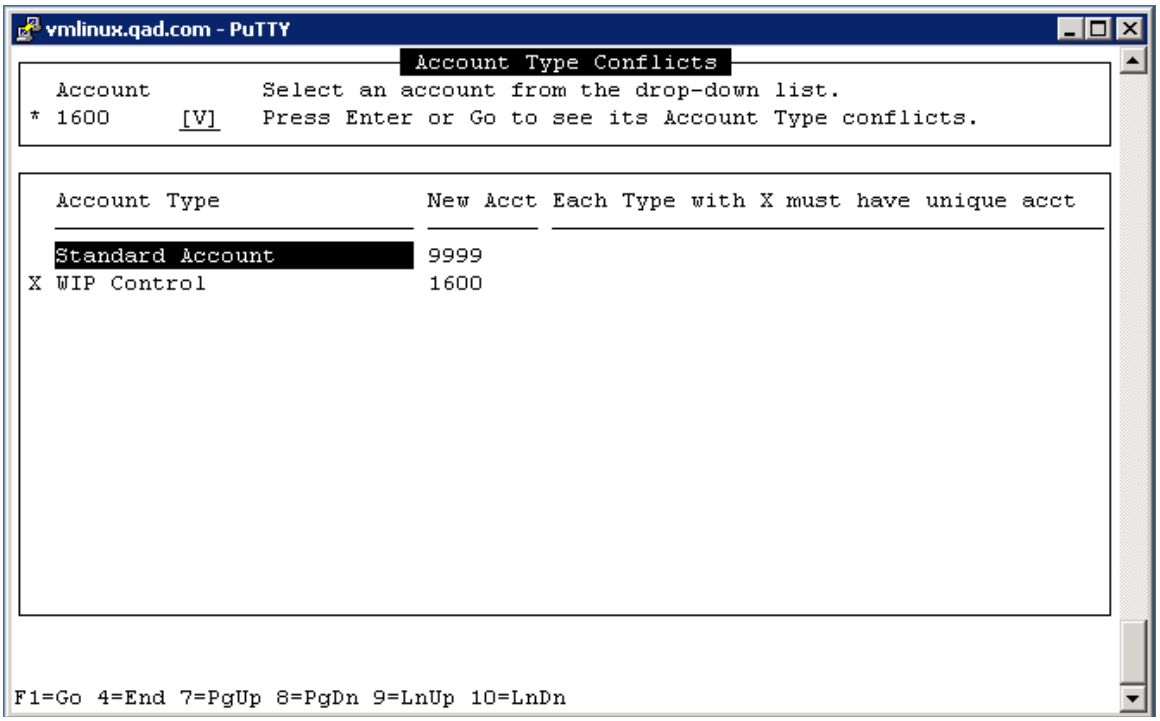
Account “1400”:



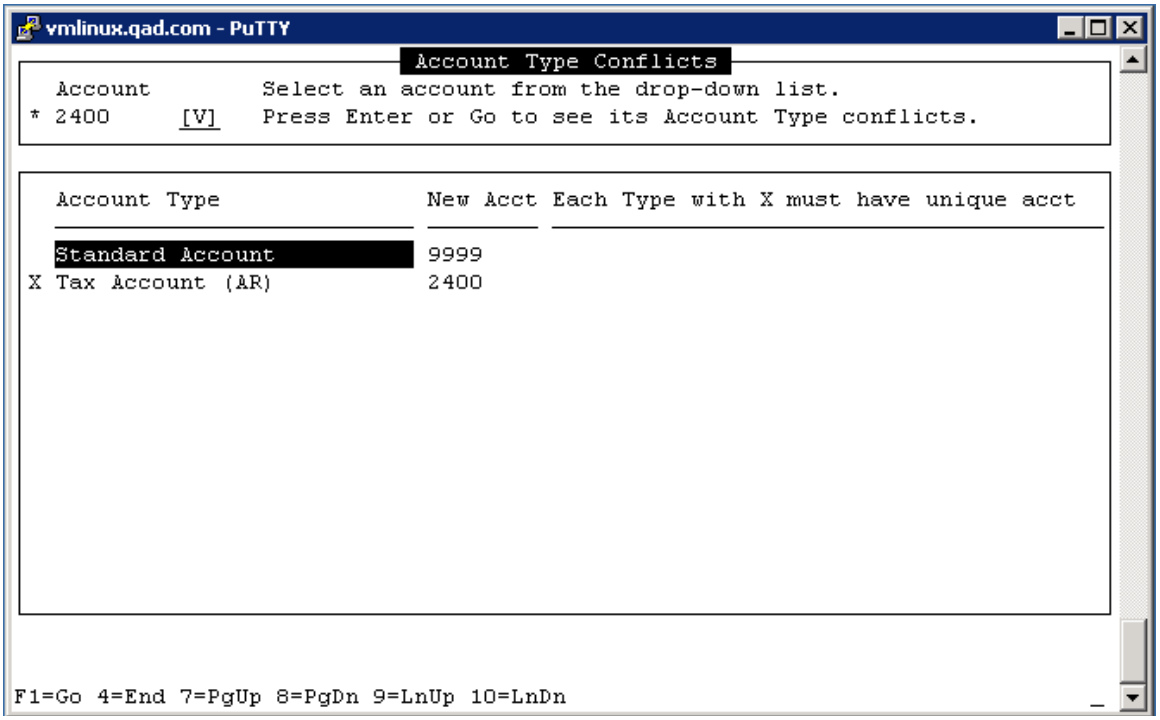
Account “1500”:



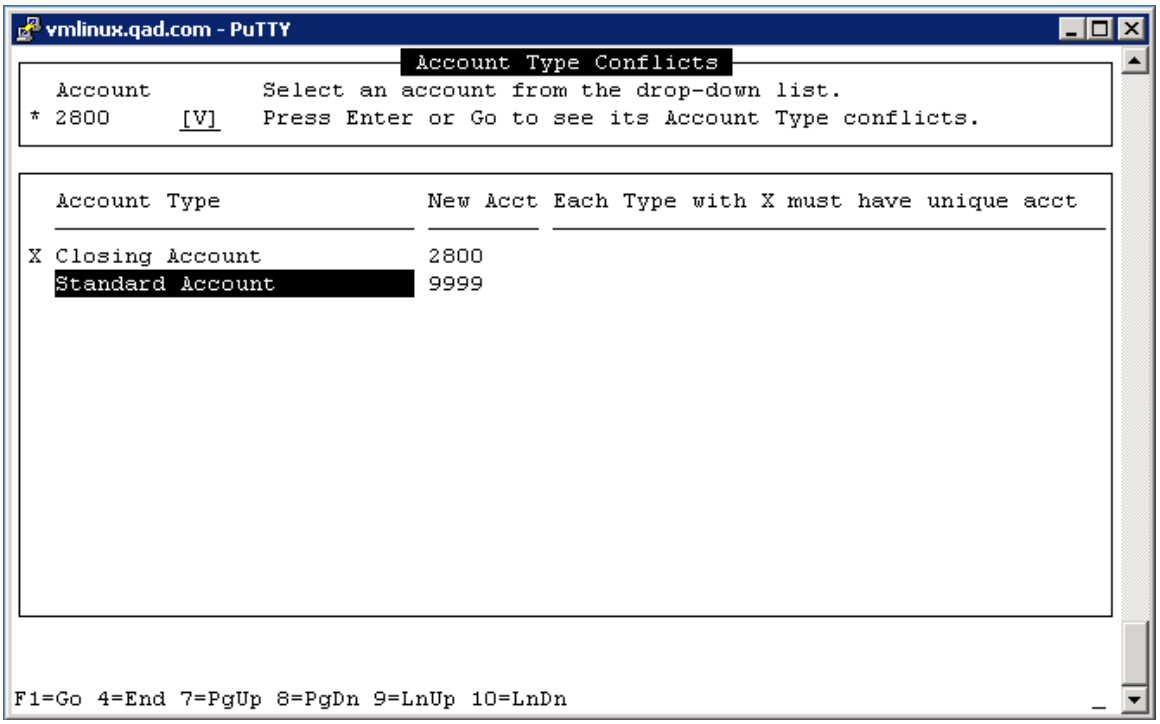
Account “1600”:



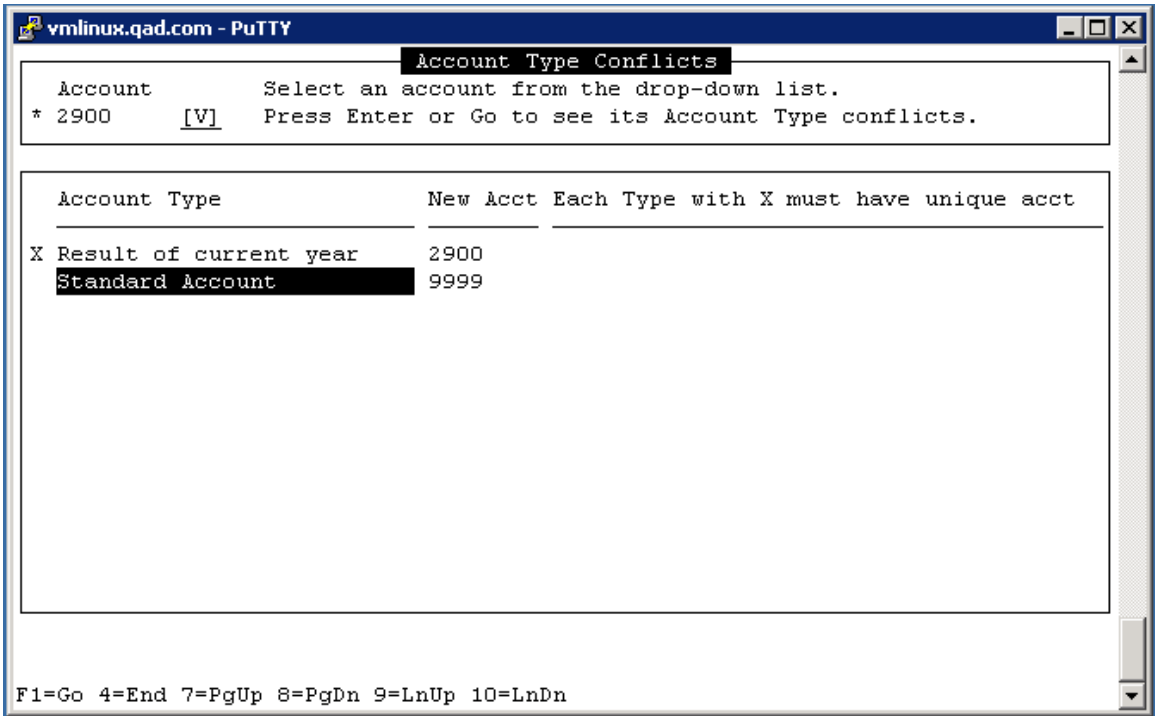
Account “2400”:



Account “2800”:



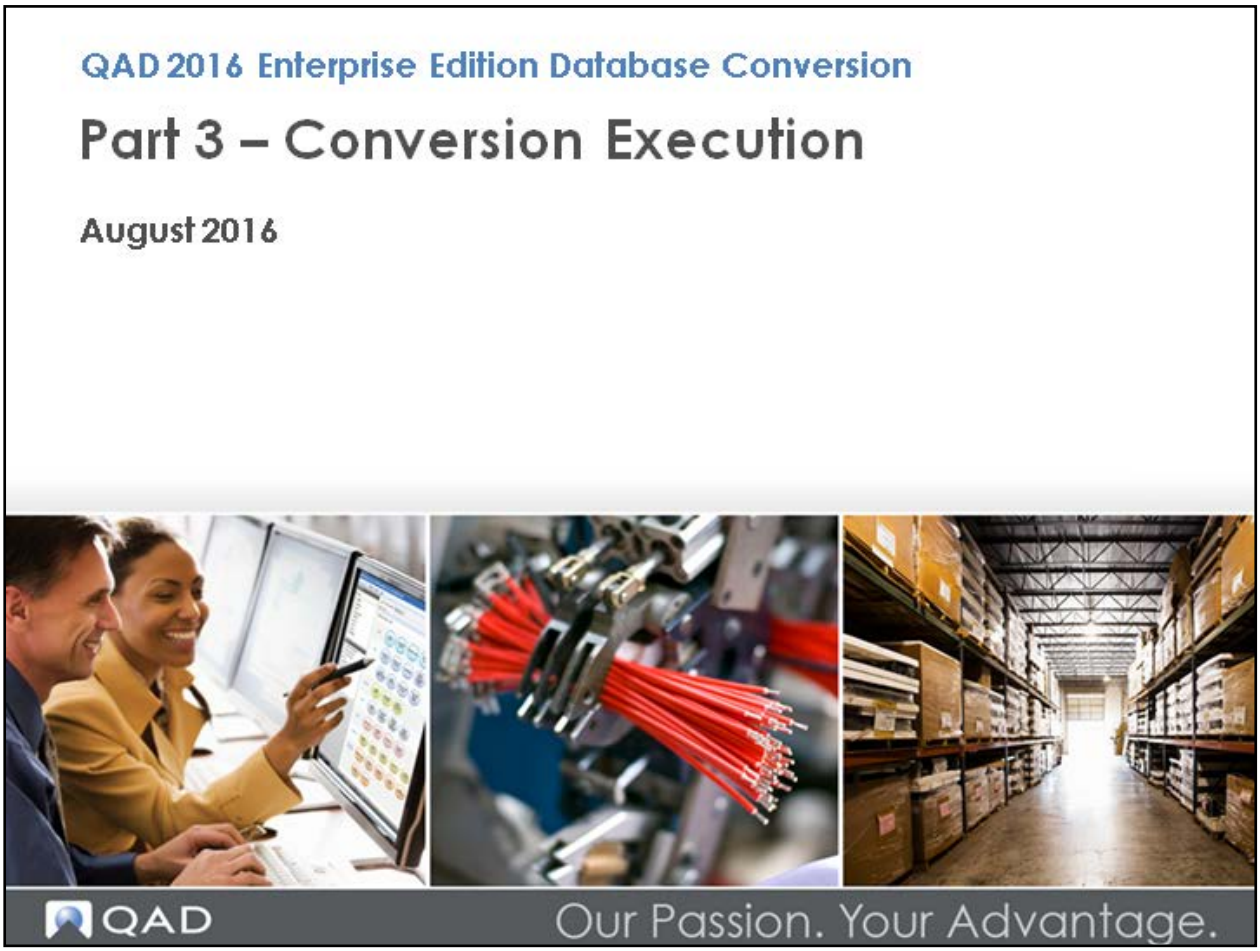
Account “2900”:



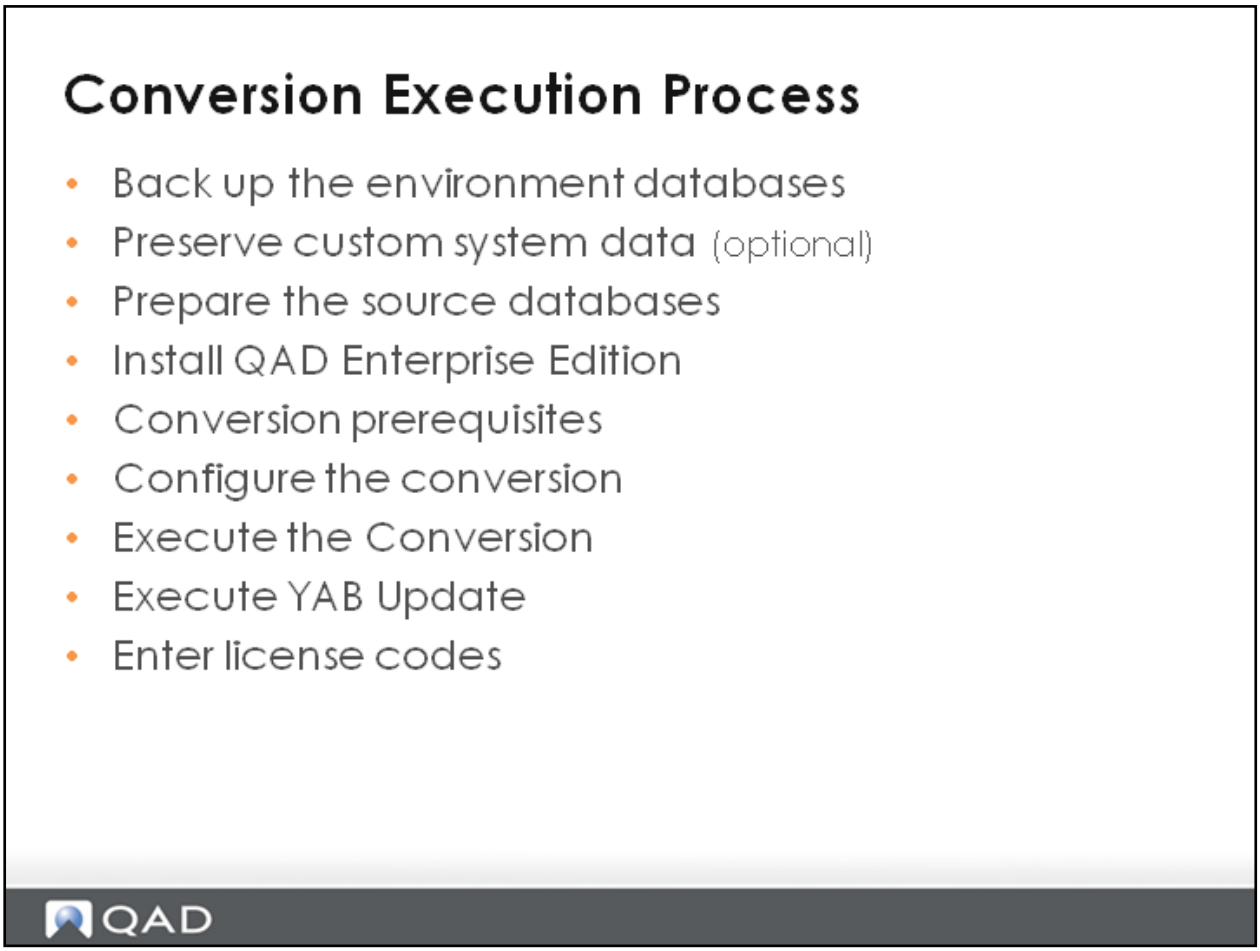
CHAPTER 3

Conversion Execution

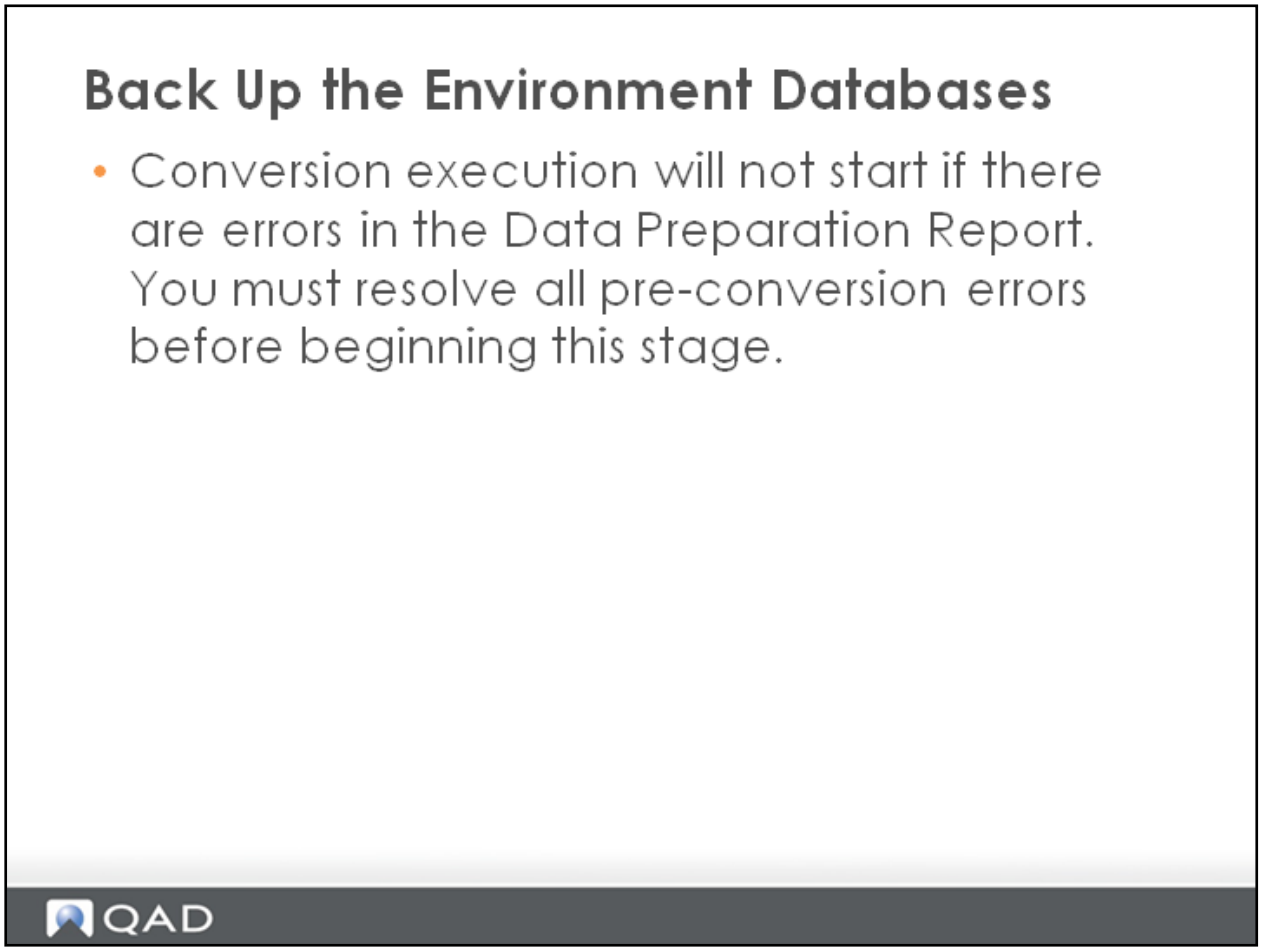
Conversion Execution



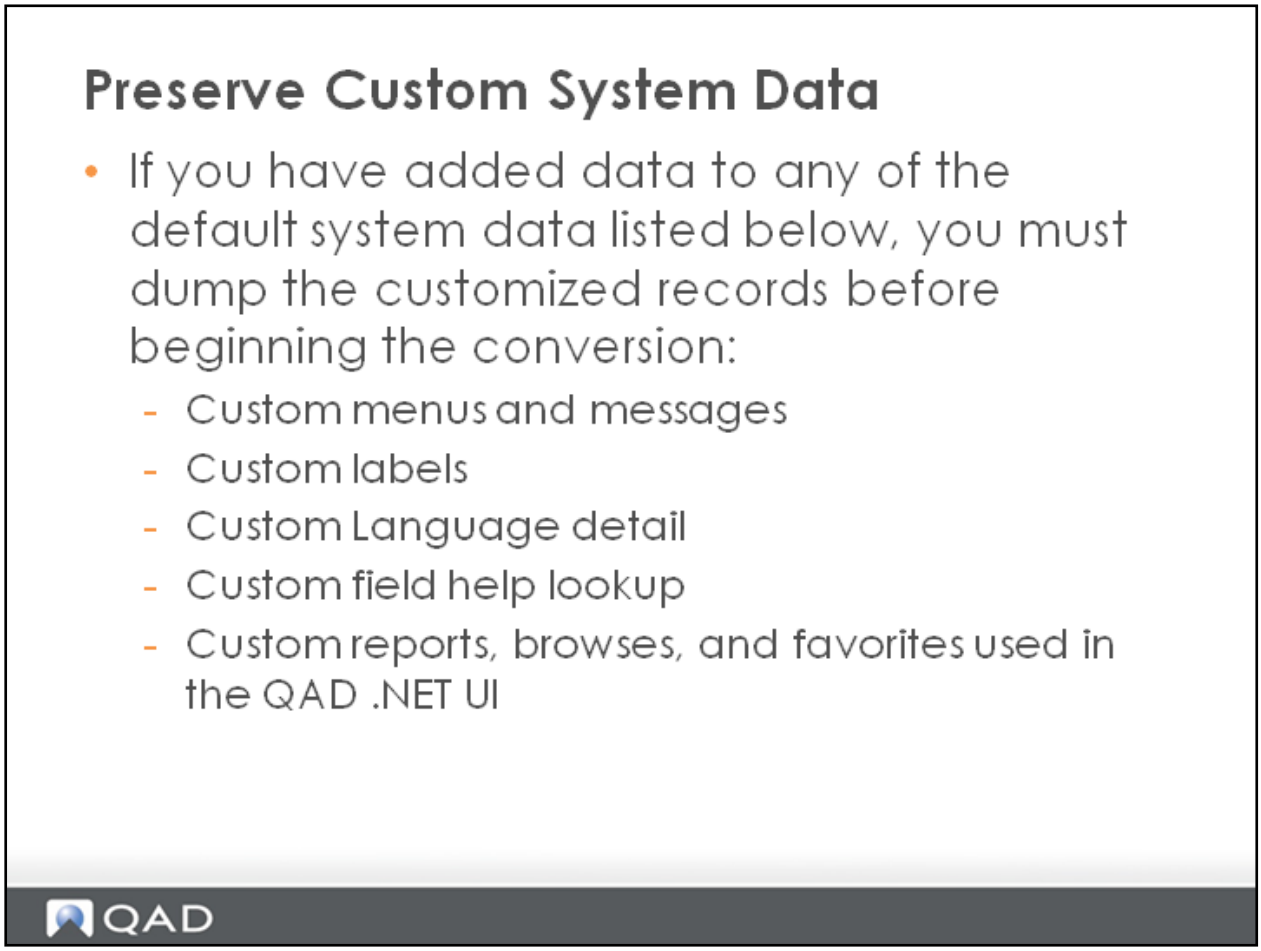
Conversion Execution Process



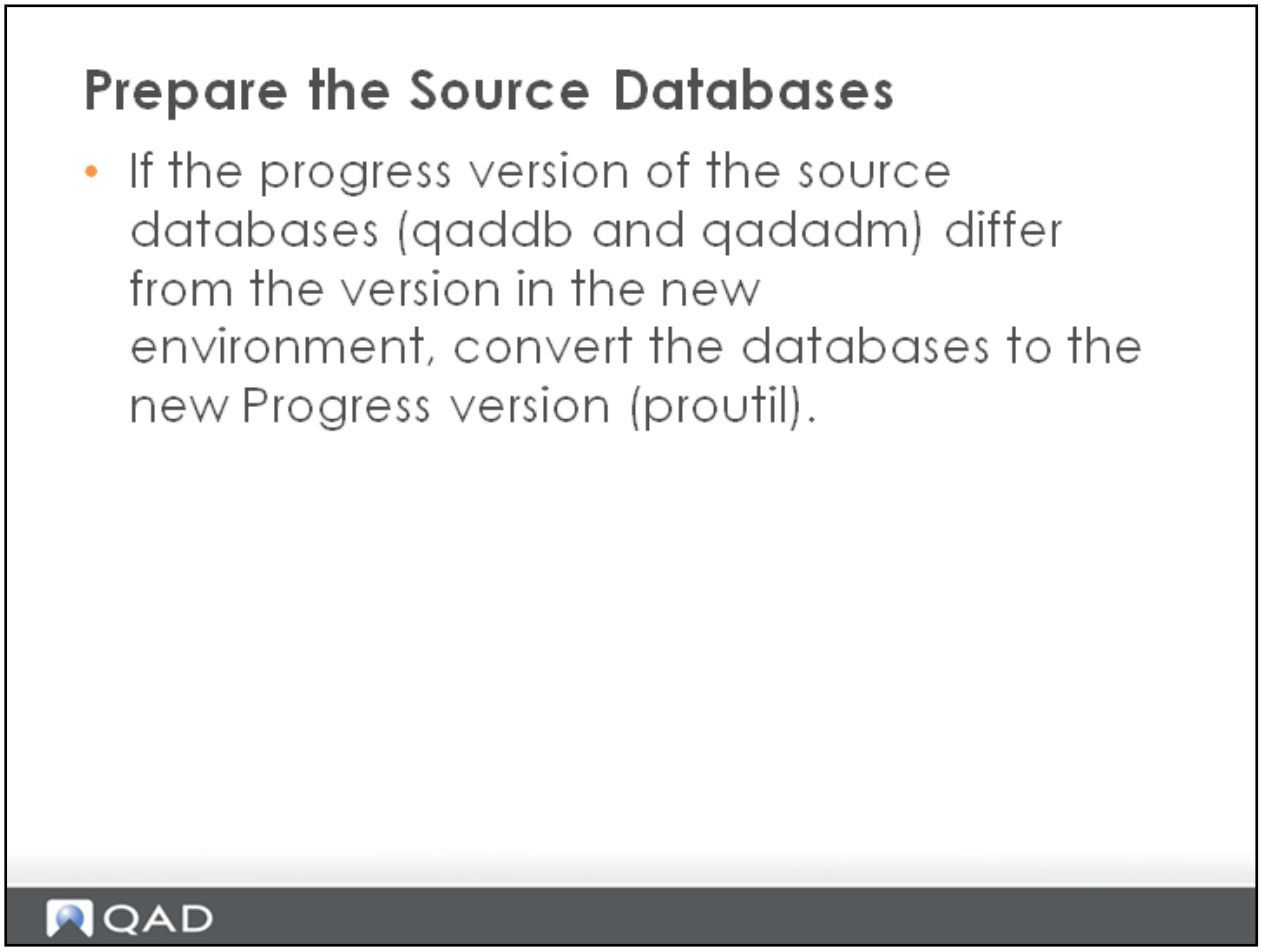
Back Up the Environment Databases



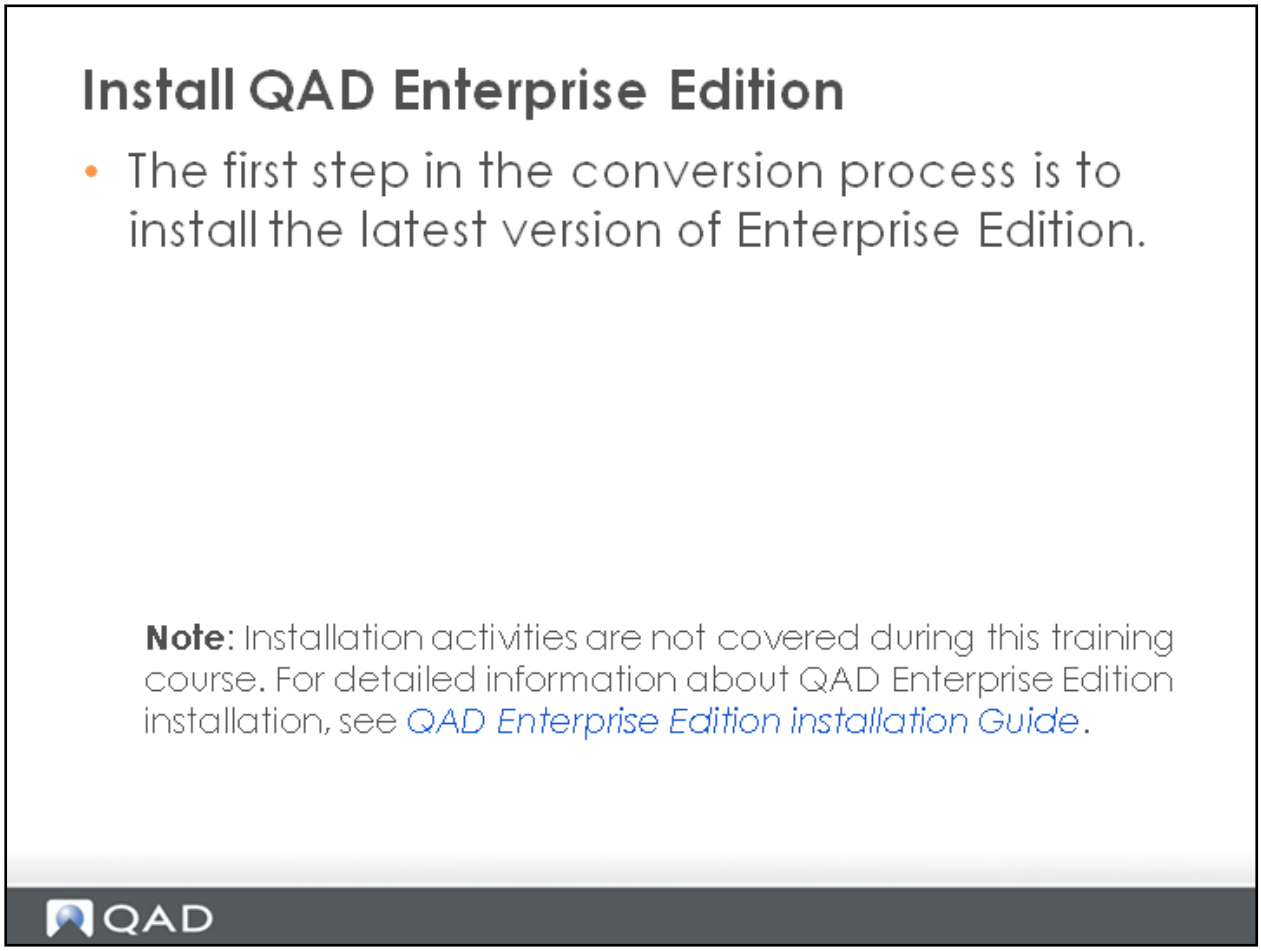
Preserve Custom System Data



Prepare the Source Databases

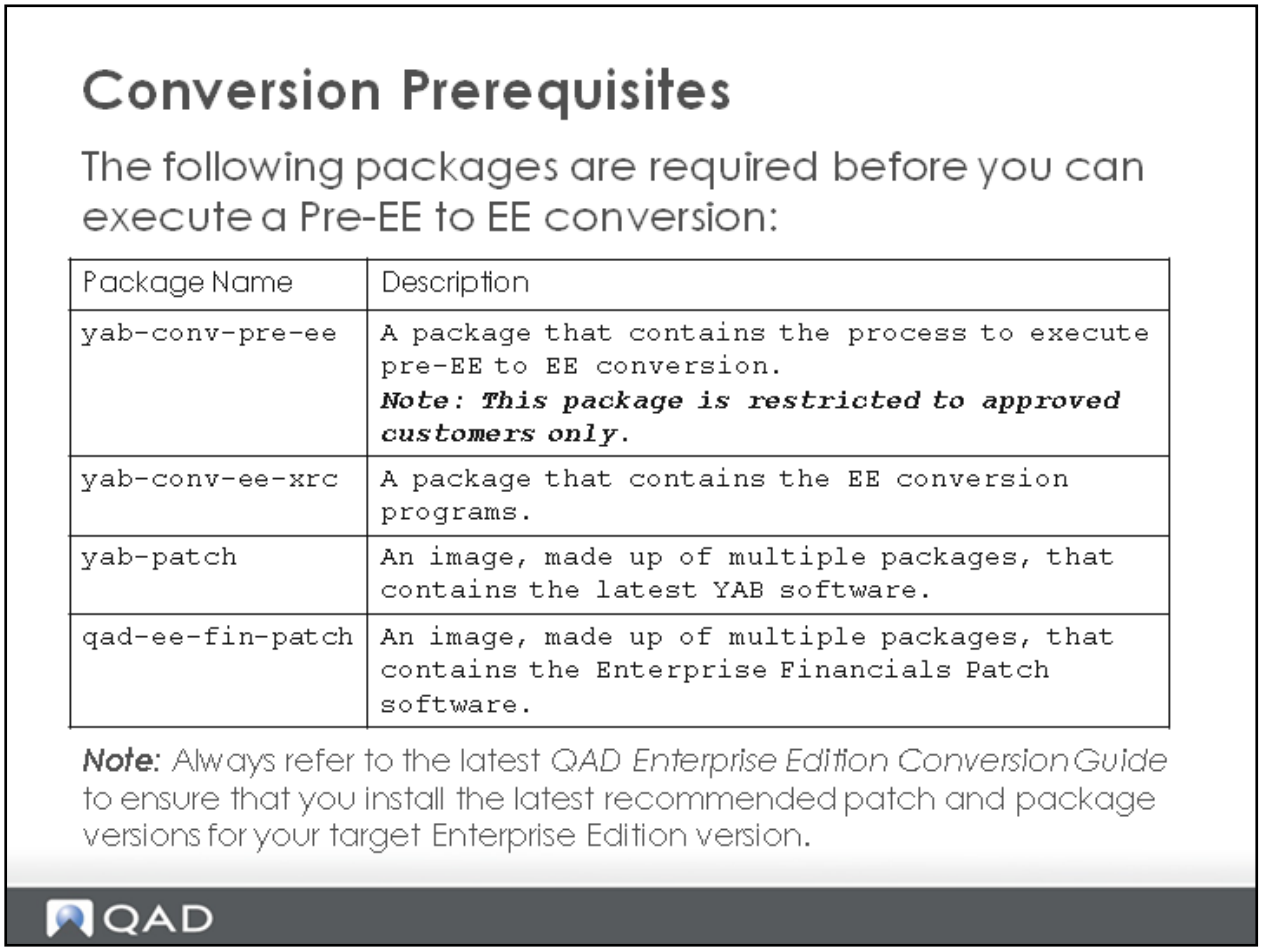


Install QAD Enterprise Edition

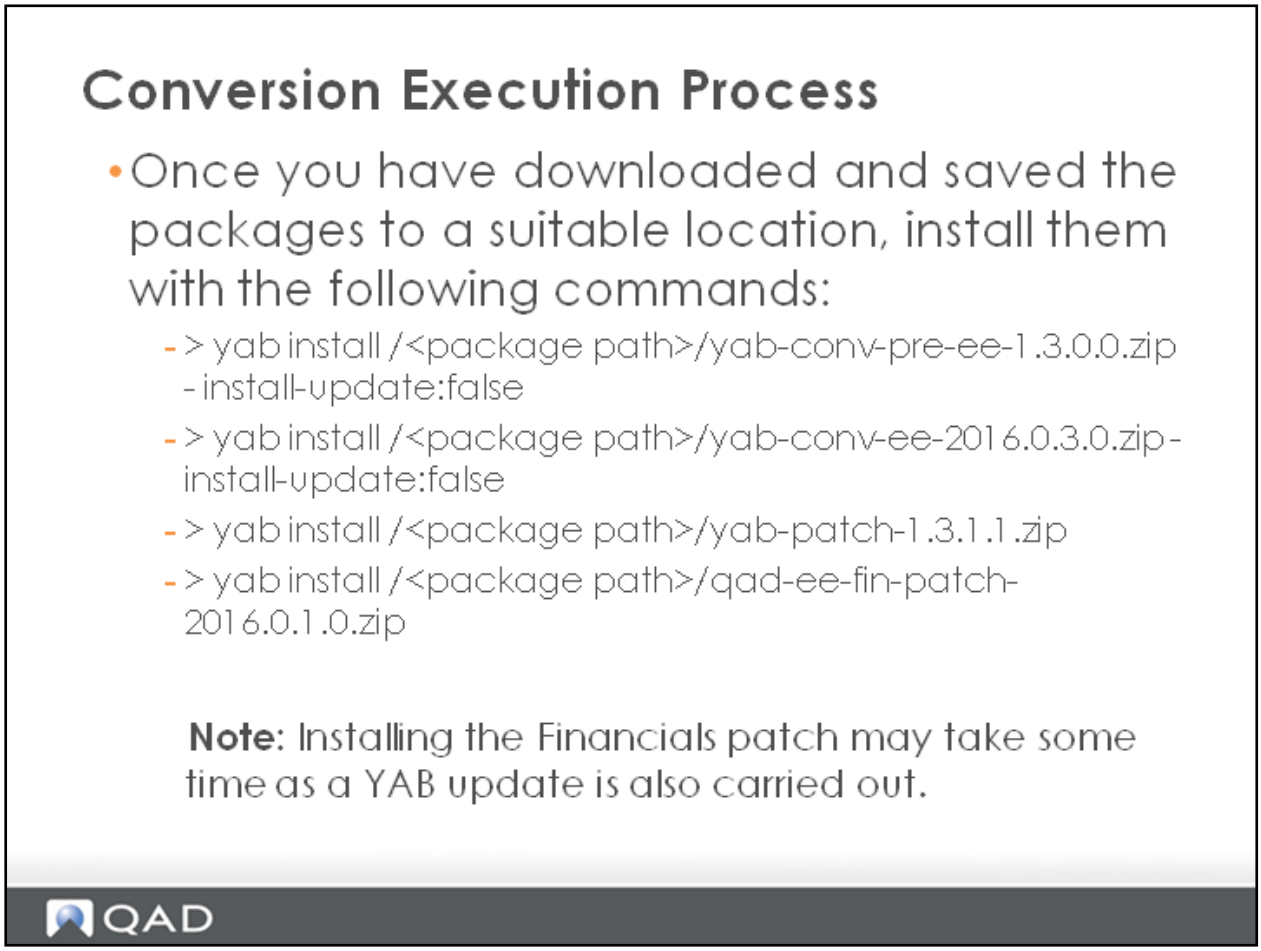


Note: if the source database uses larger files the target version should also be configured to use larger files.

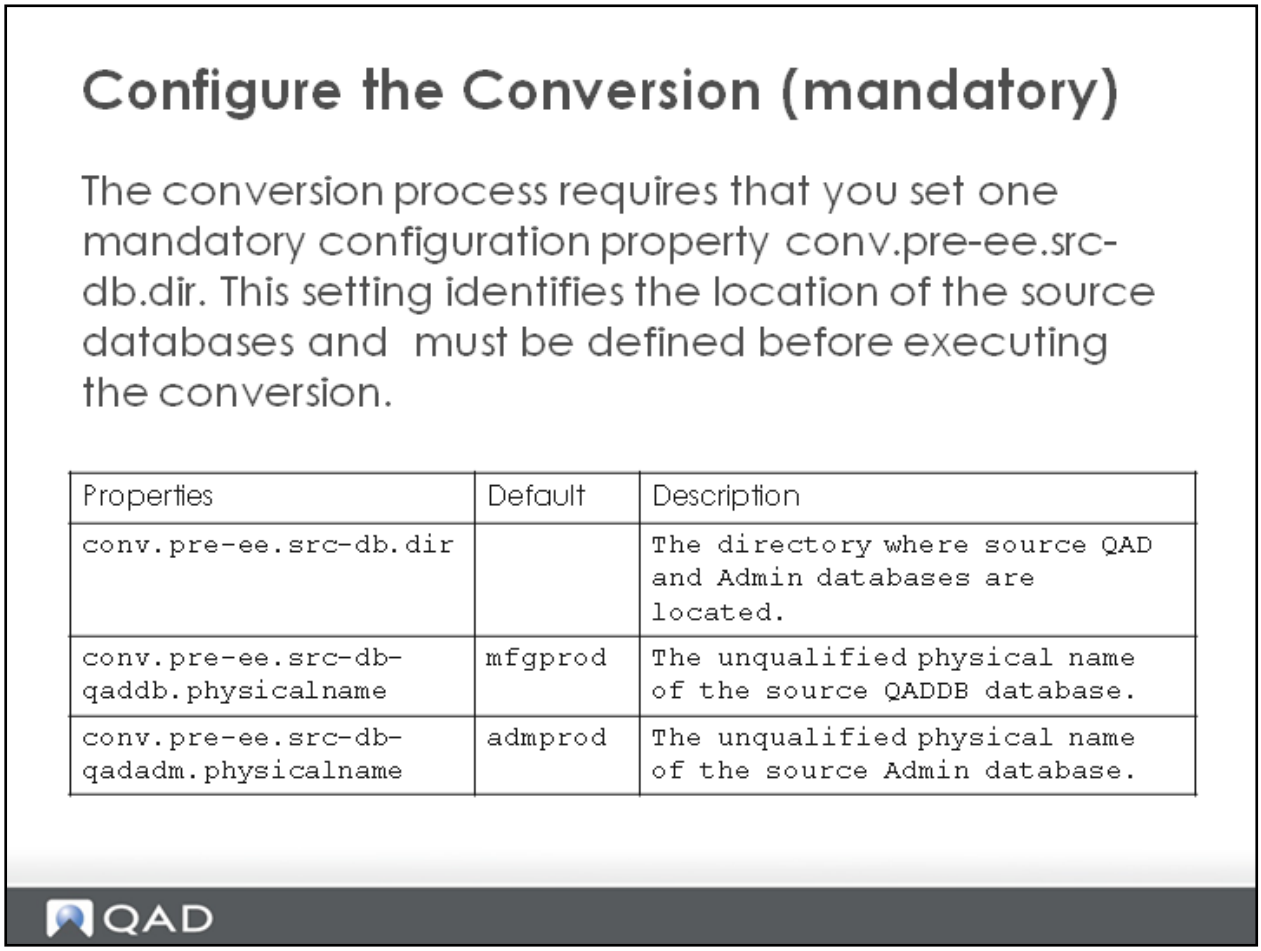
Conversion Prerequisites



Conversion Execution Process

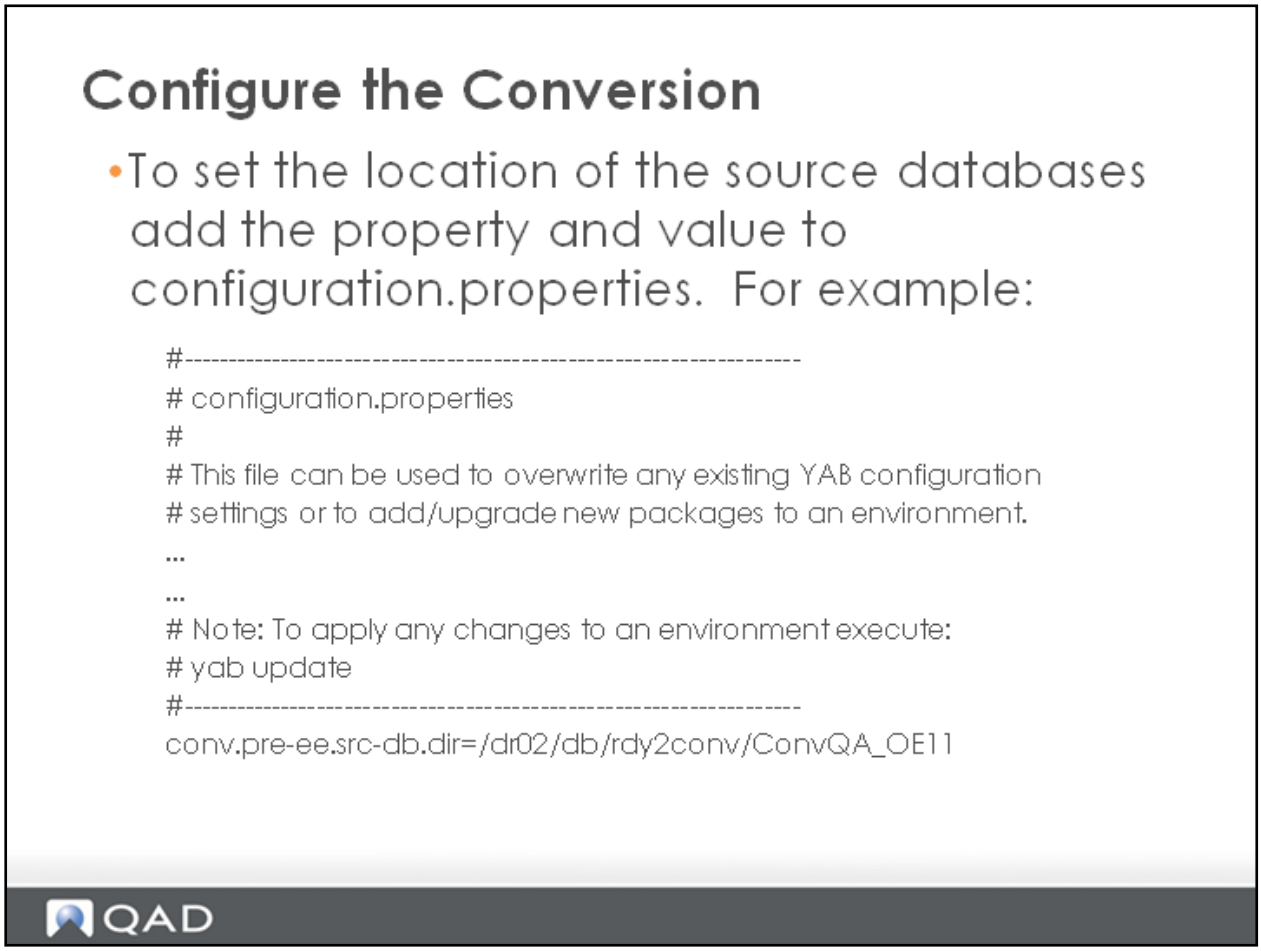


Configure the Conversion (mandatory)

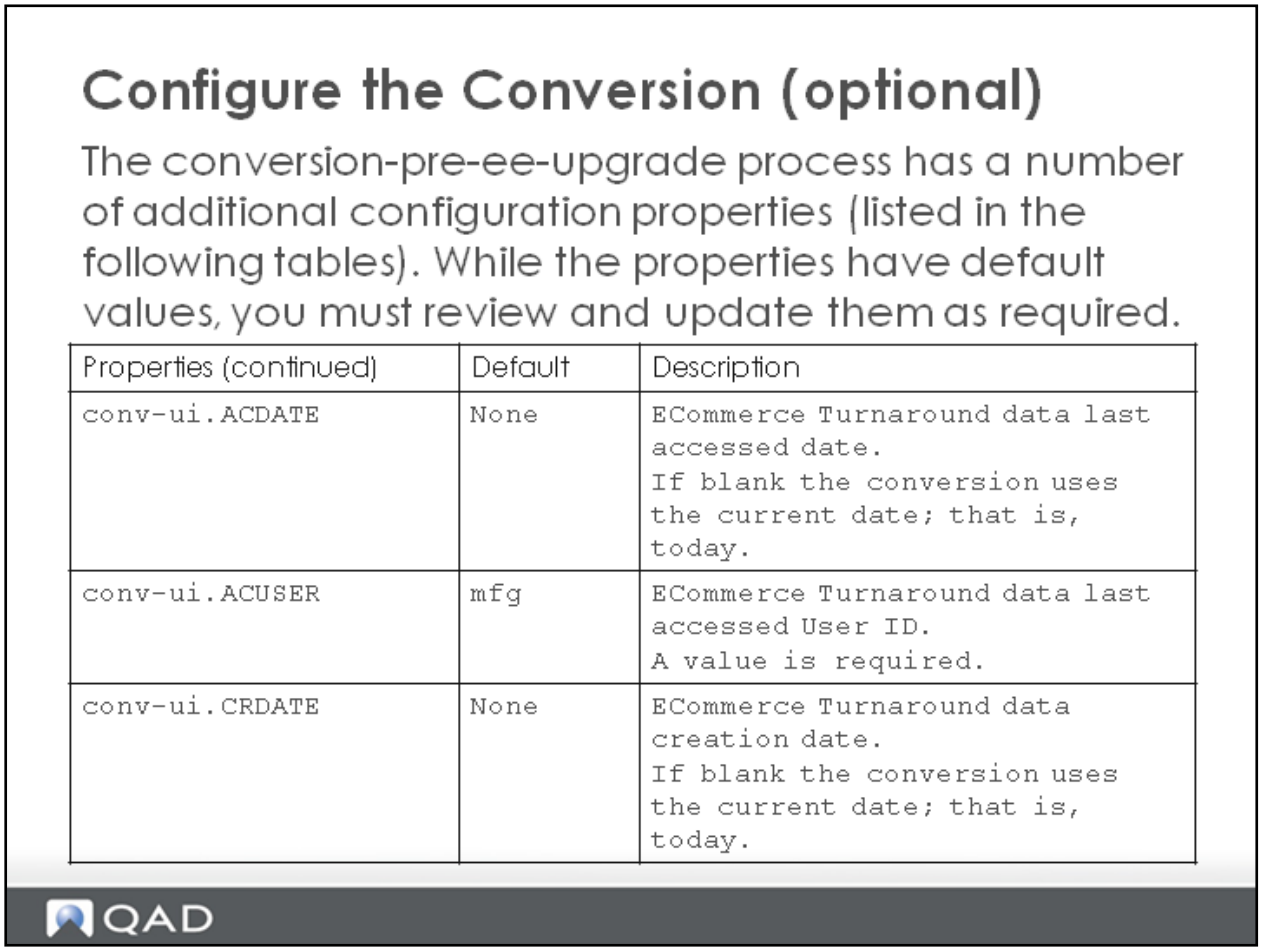


Note: The default physical names of the source databases are **mfgprod** and **admprod.** Use these default names when restoring the source databases to avoid having to override them in the configuration.properties file.

Configure the Conversion

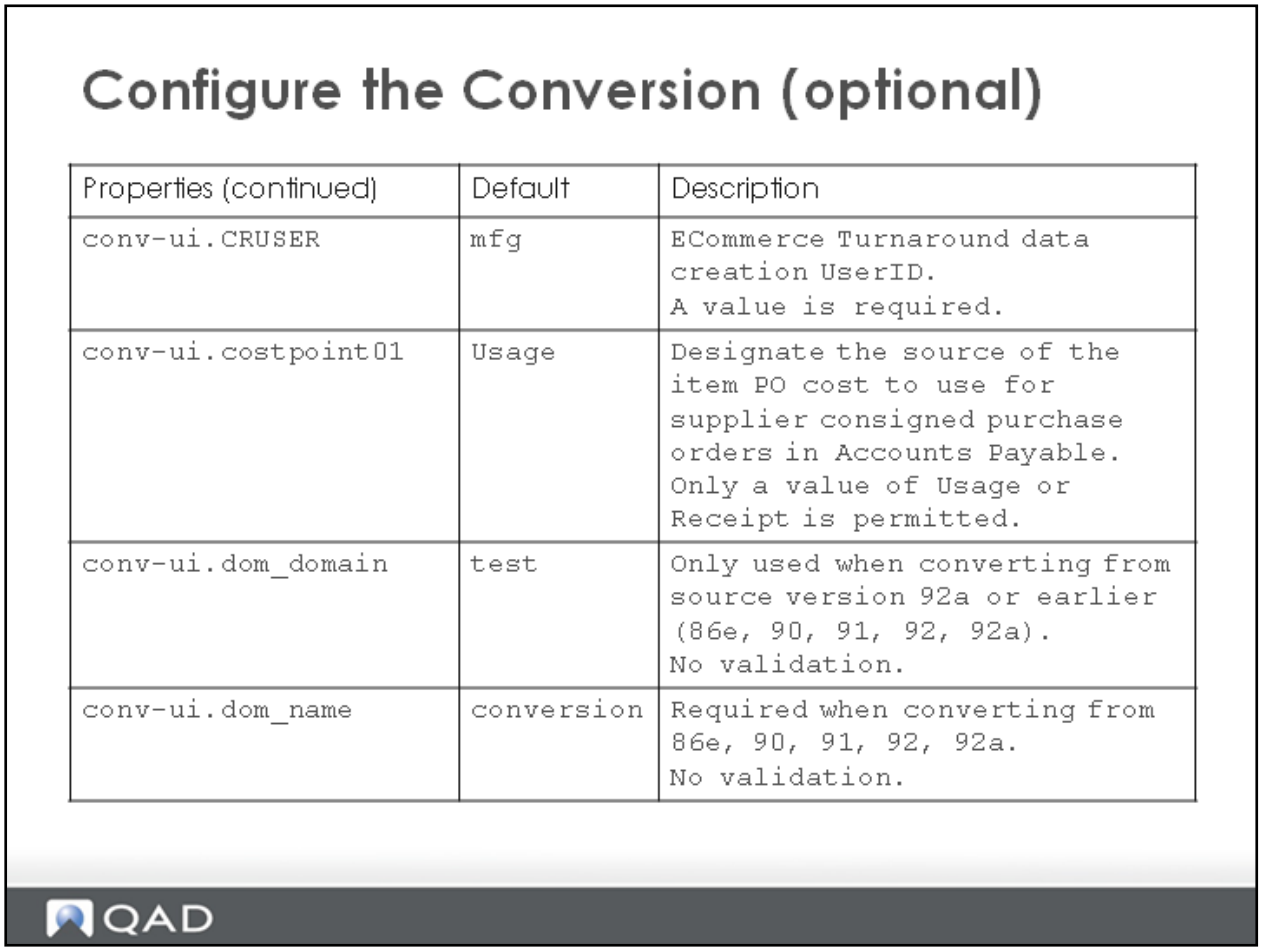


Configure the Conversion (optional)

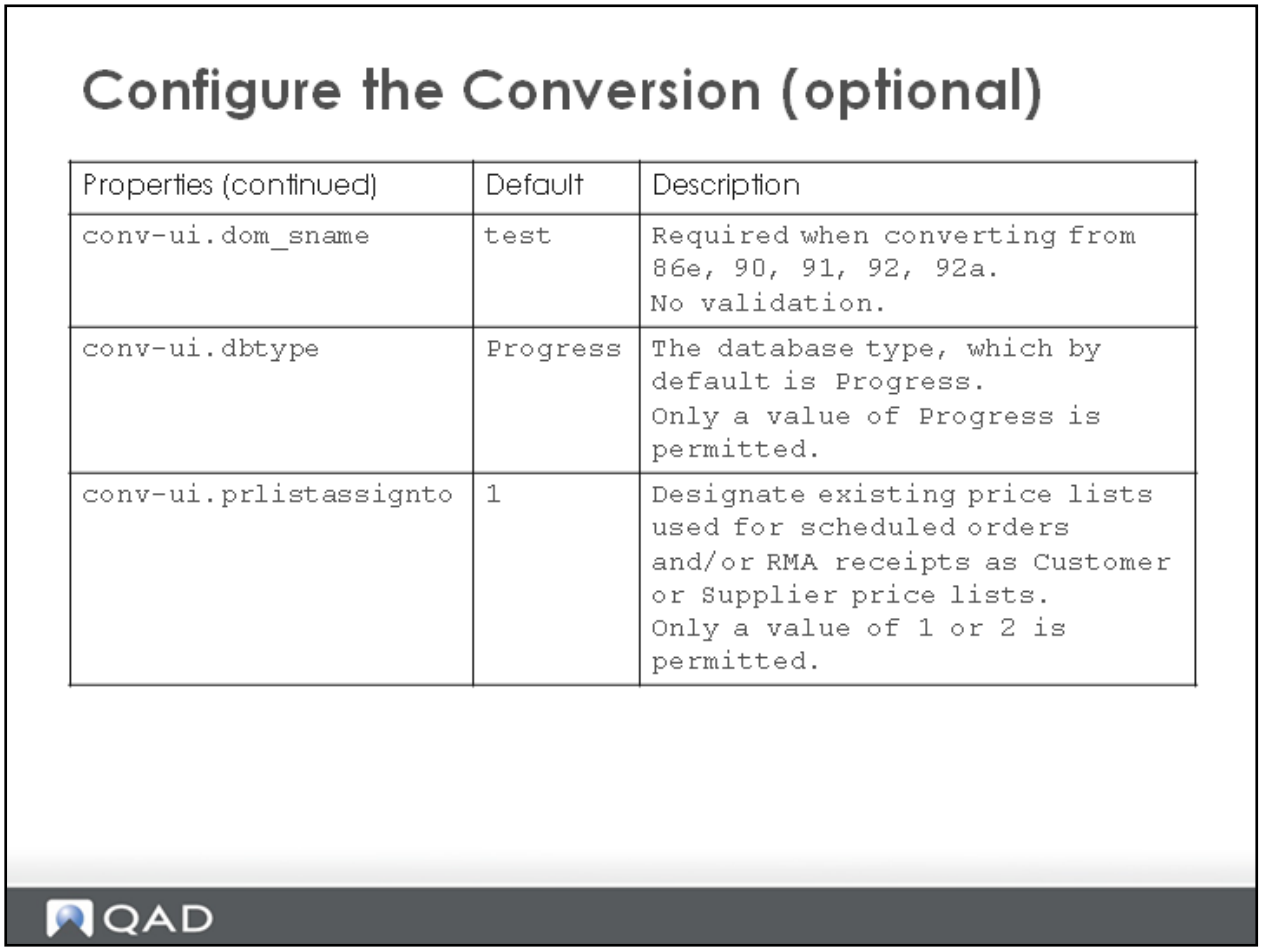


To view more detailed information for each configuration setting, use the yab help command.

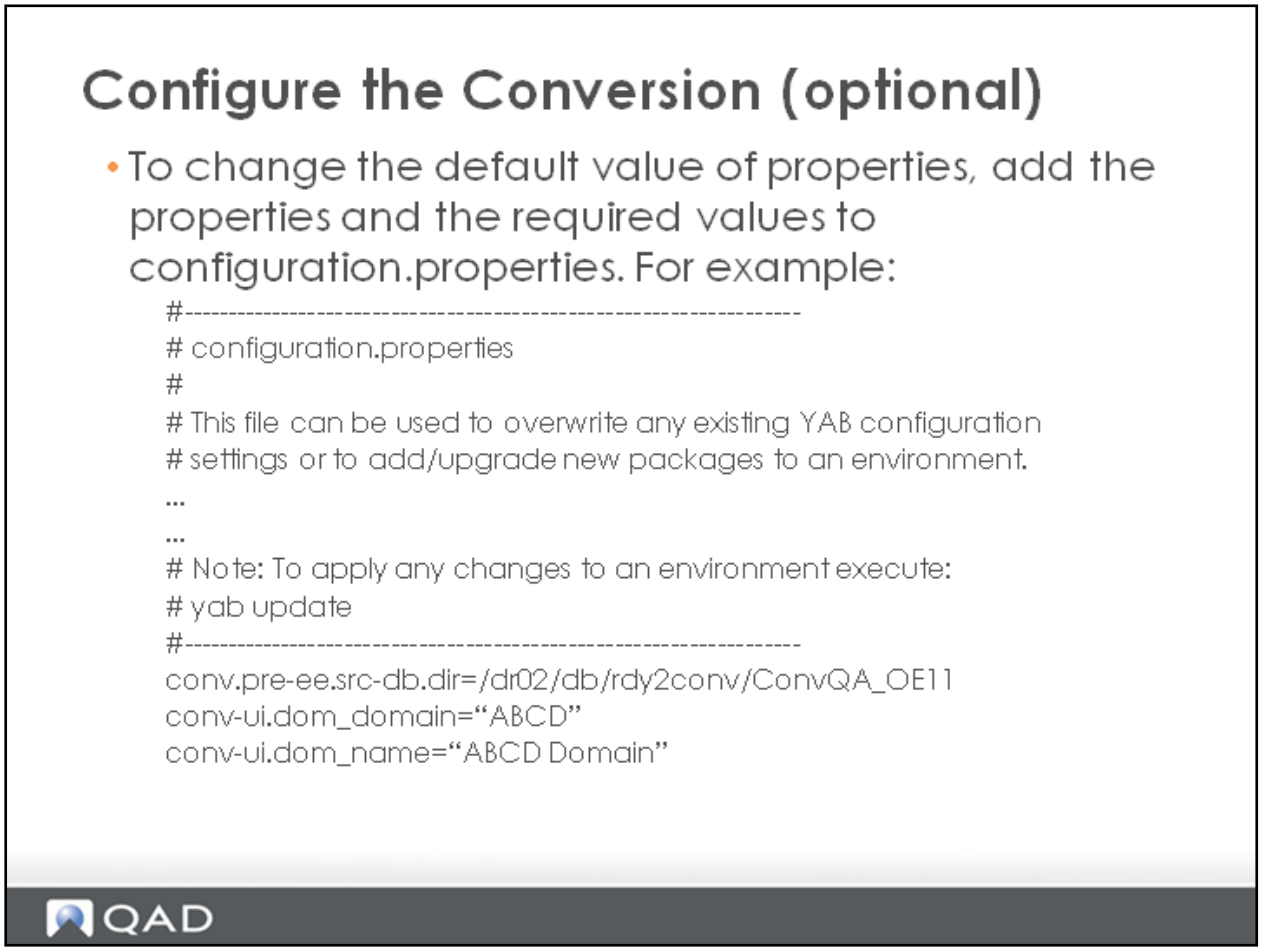
Configure the Conversion (optional)



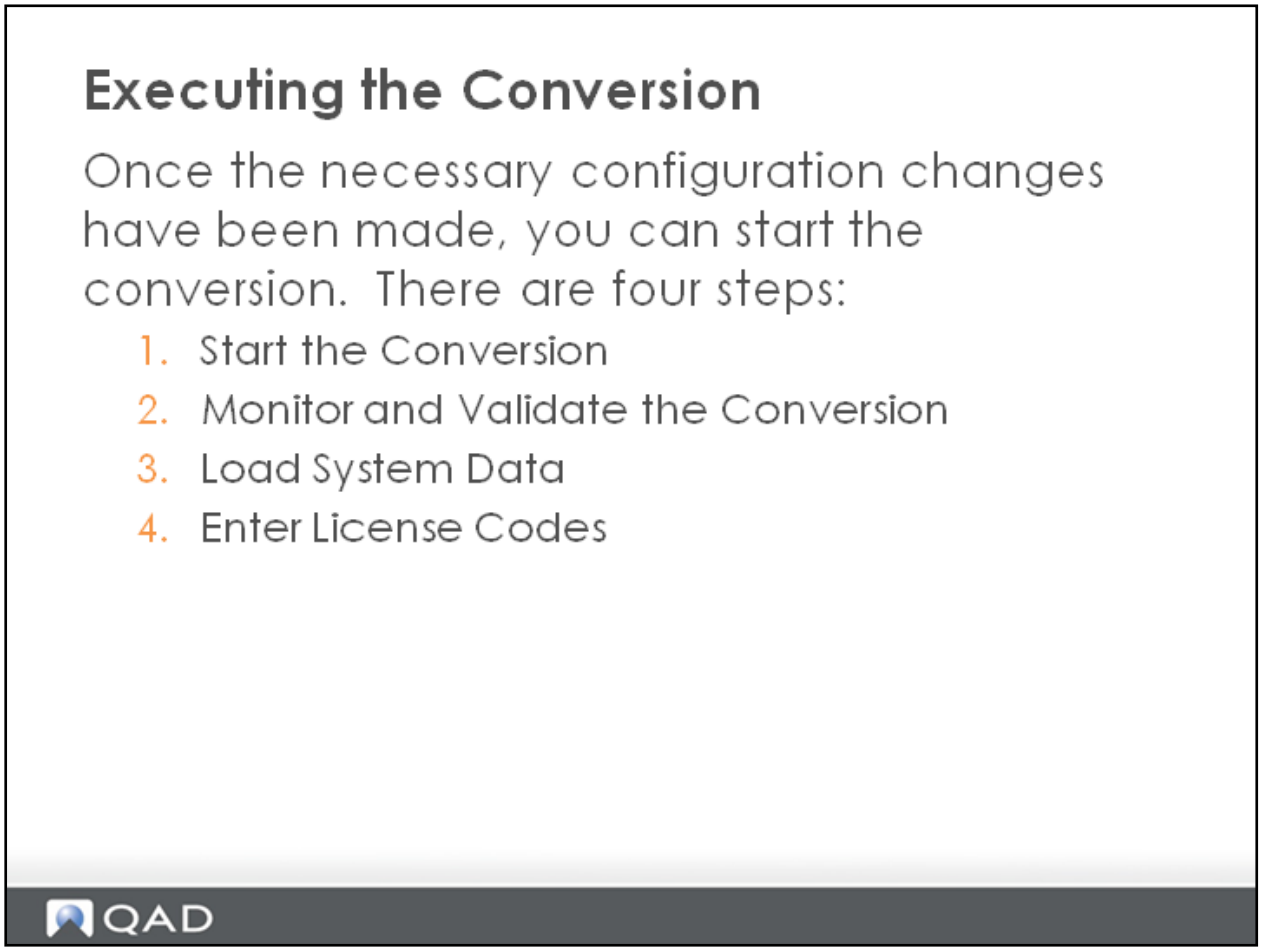
Configure the Conversion (optional)



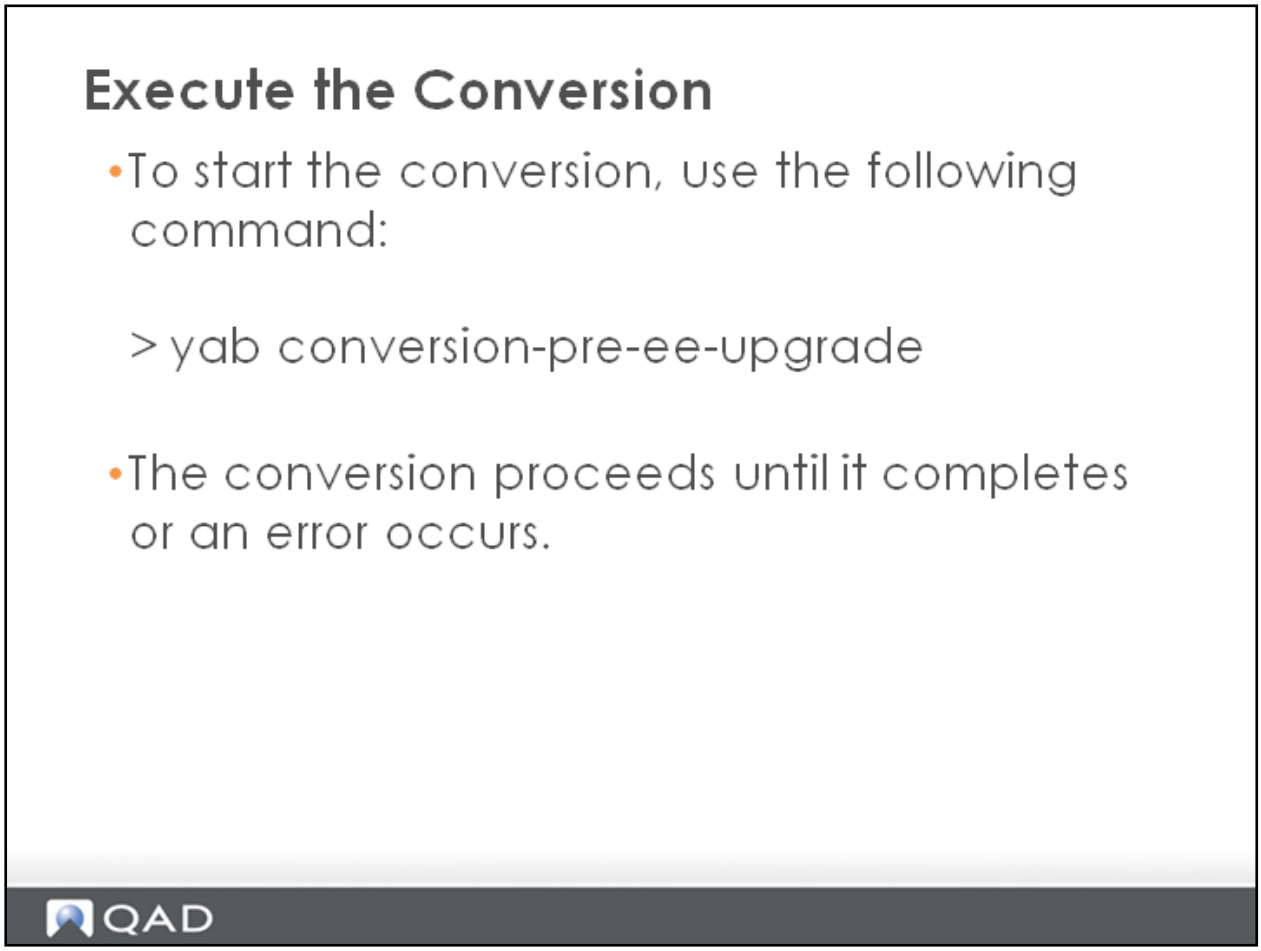
Configure the Conversion (optional)



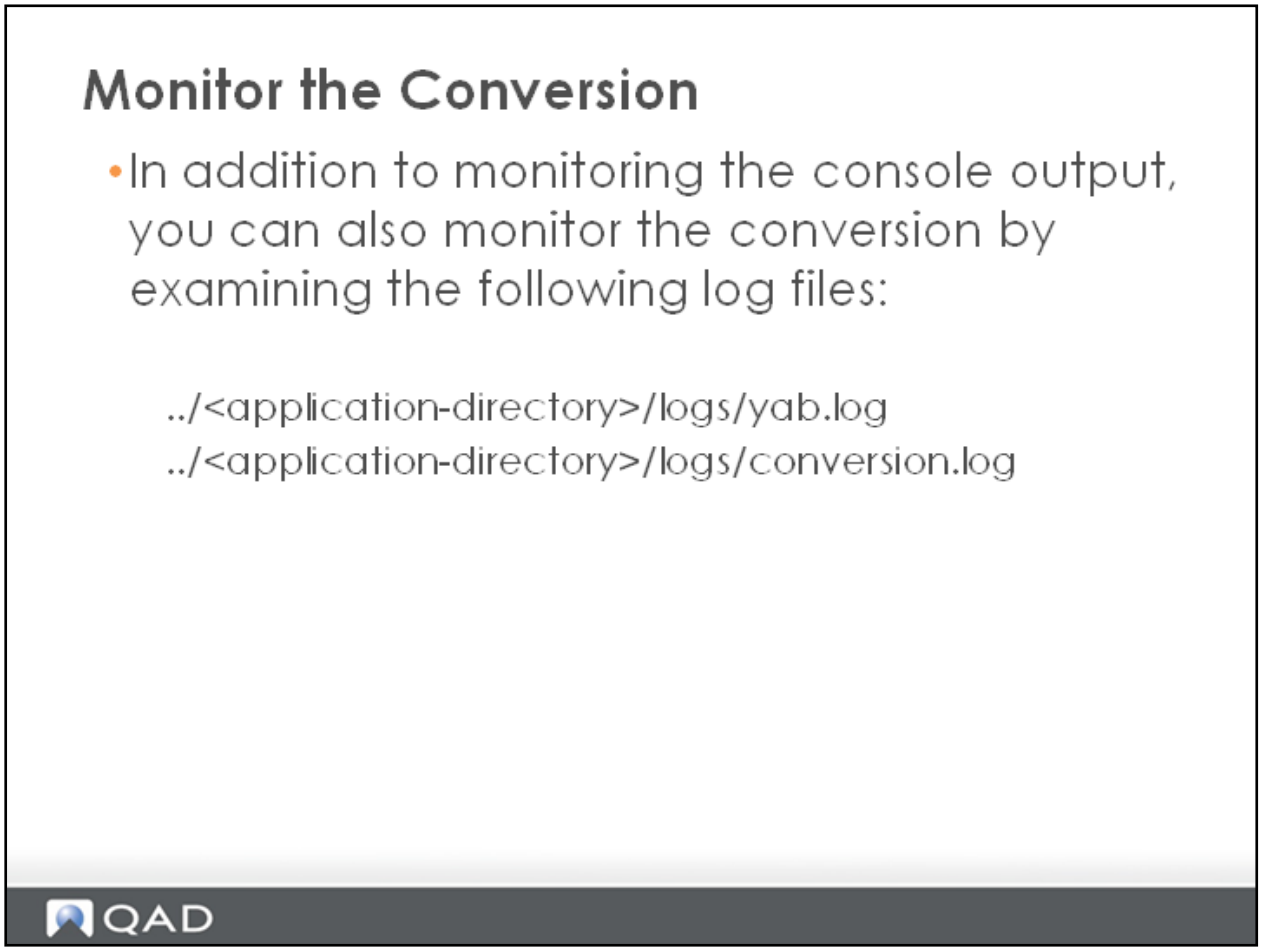
Executing the Conversion



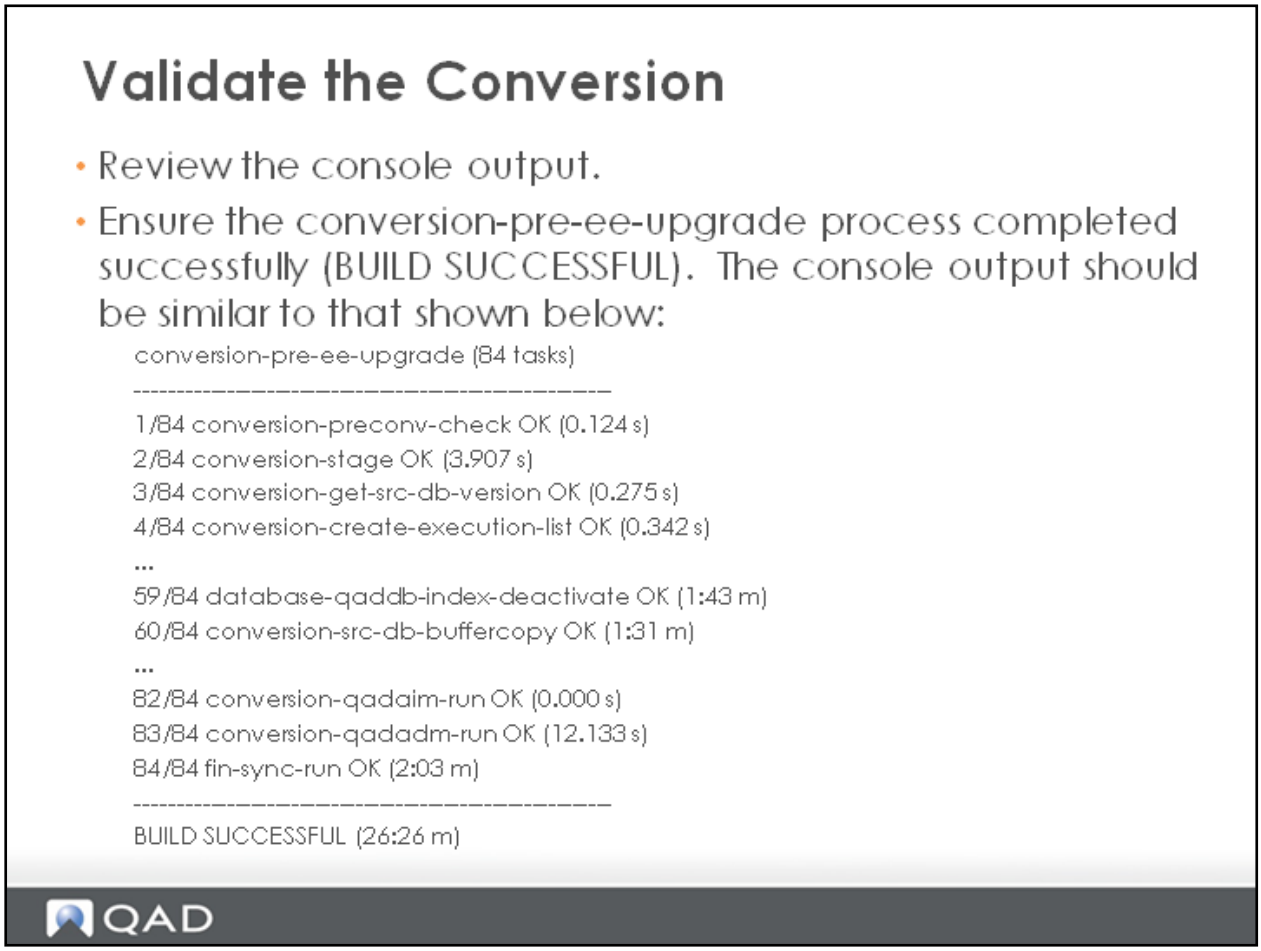
Execute the Conversion



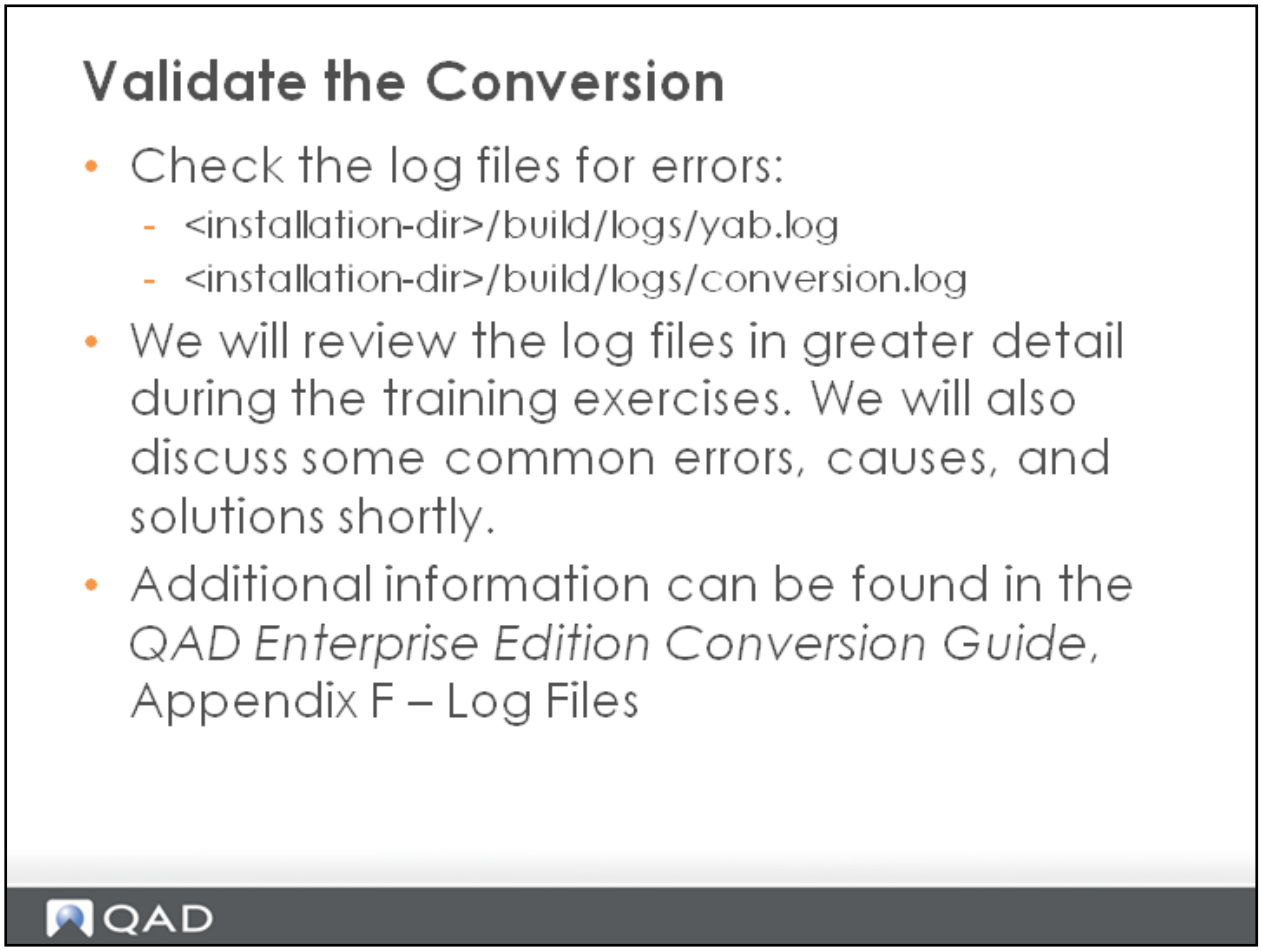
Monitor the Conversion



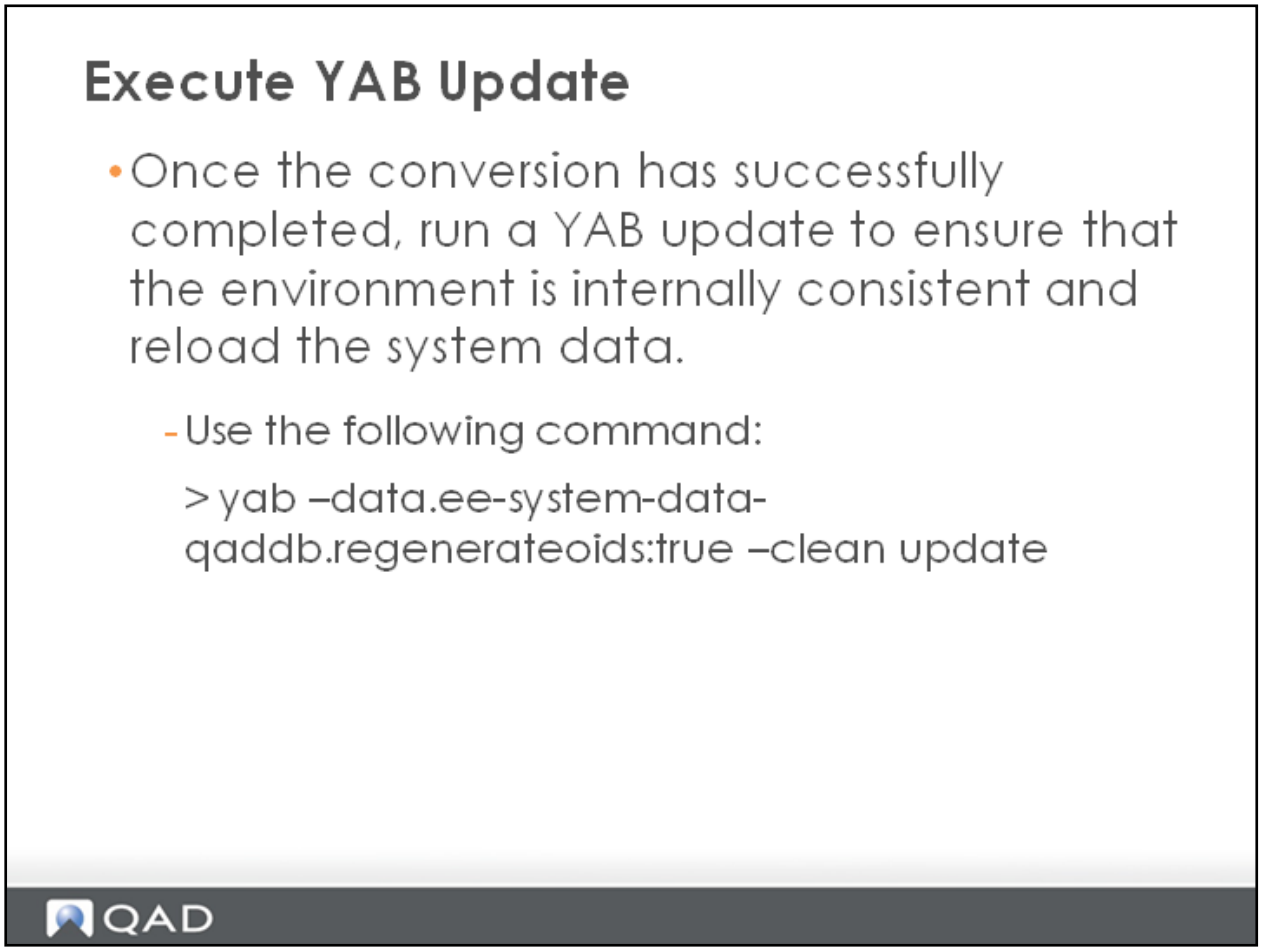
Validate the Conversion



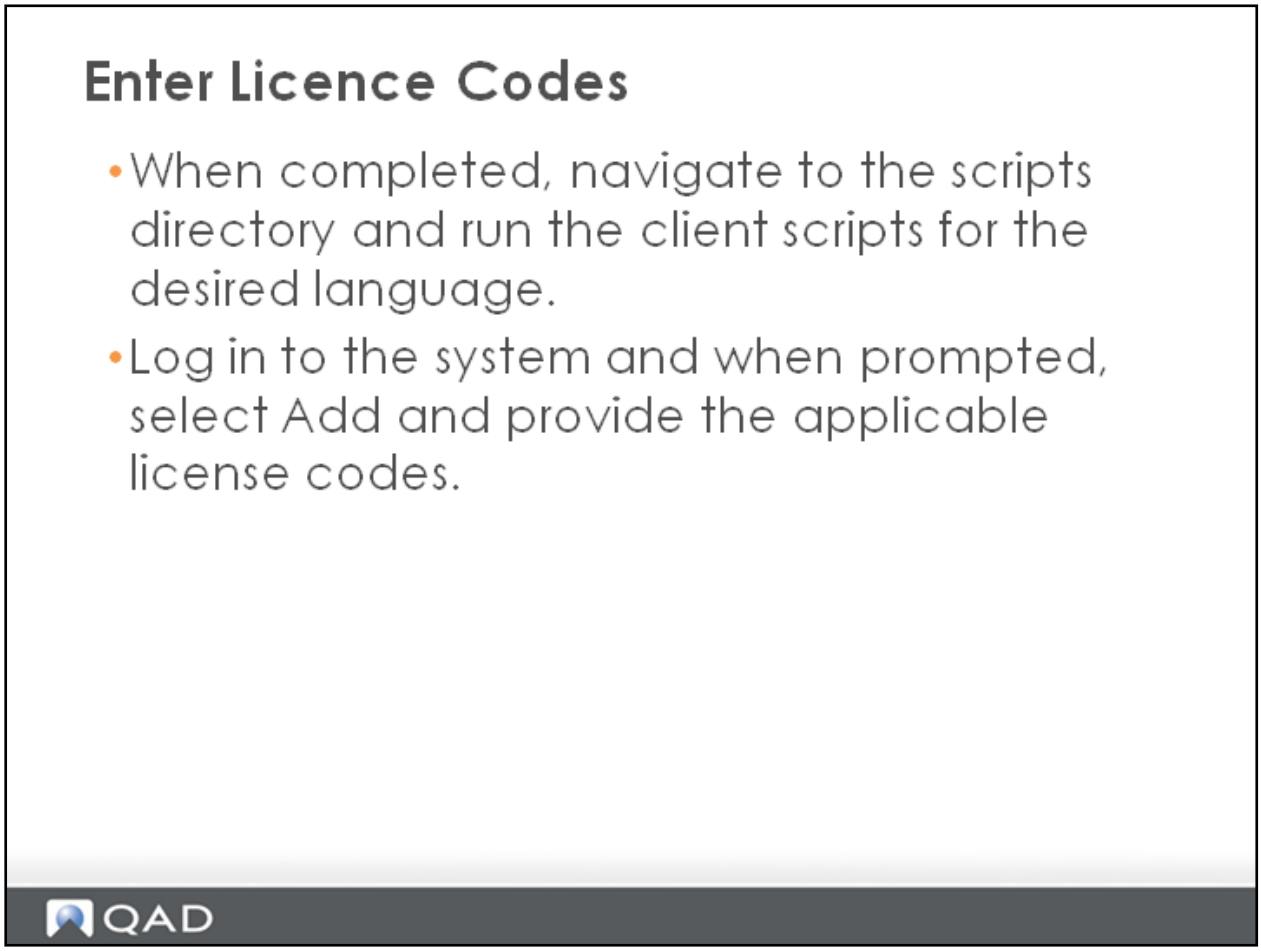
Validate the Conversion



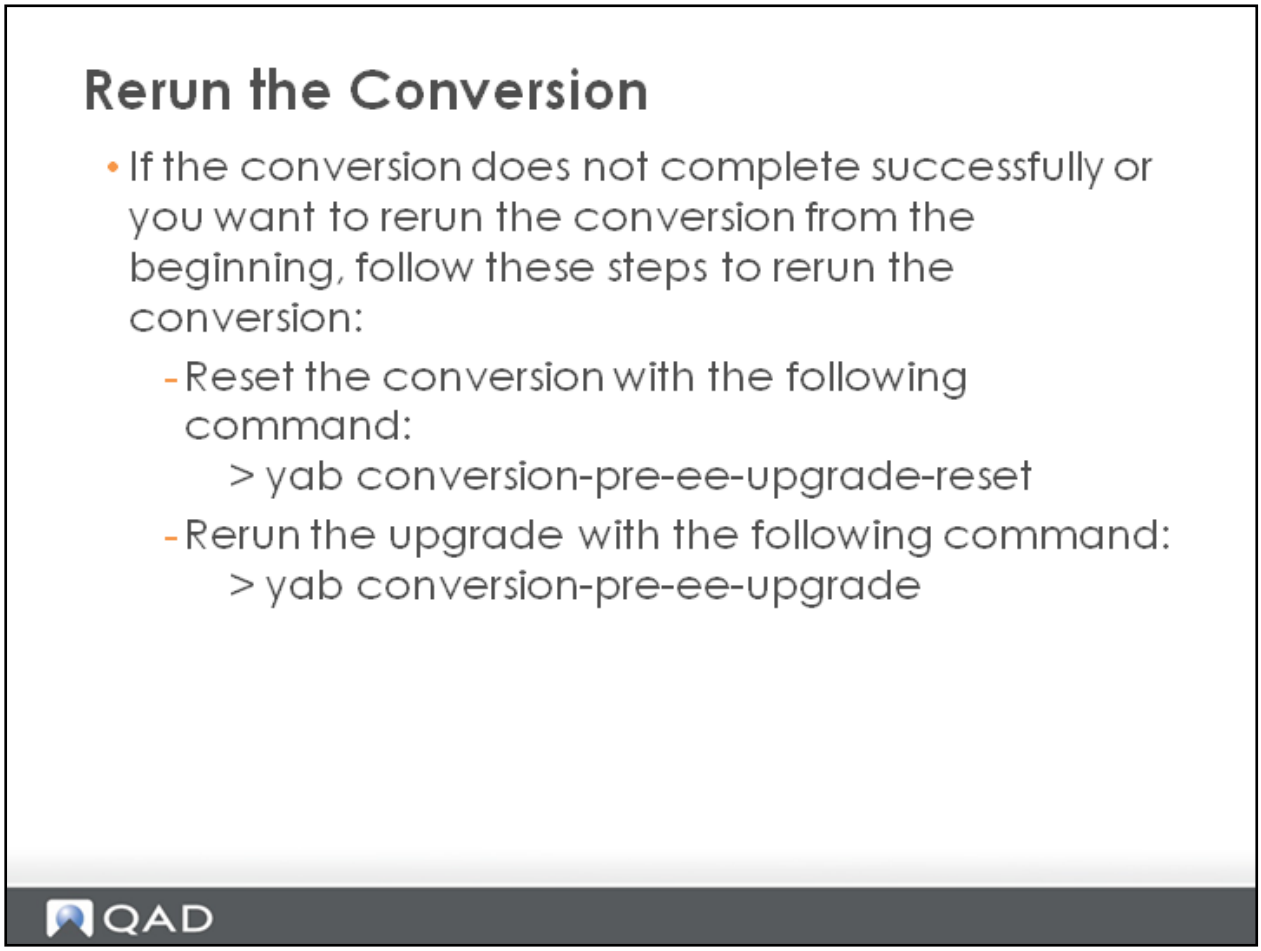
Execute YAB Update



Enter Licence Codes

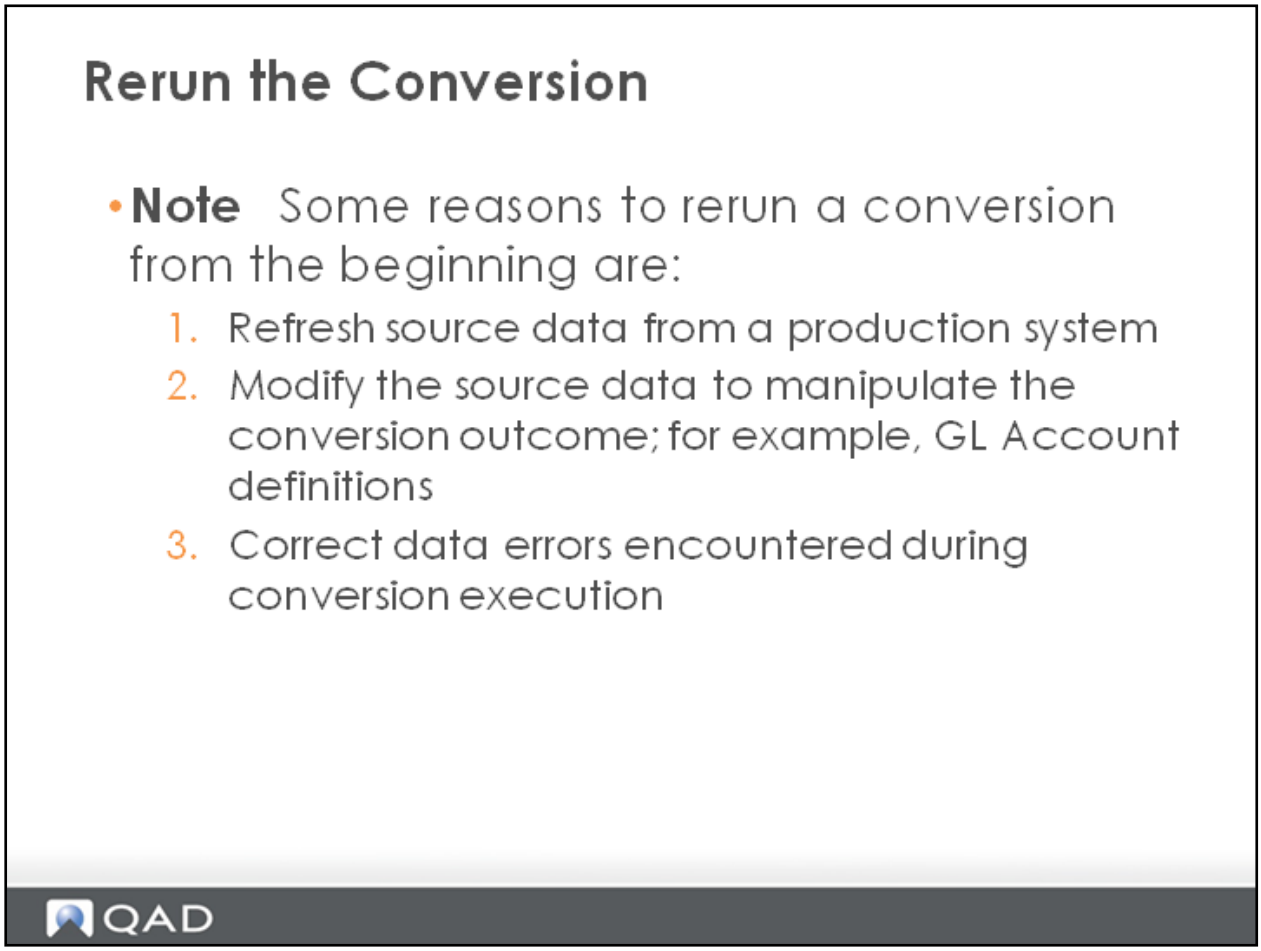


Rerun the Conversion

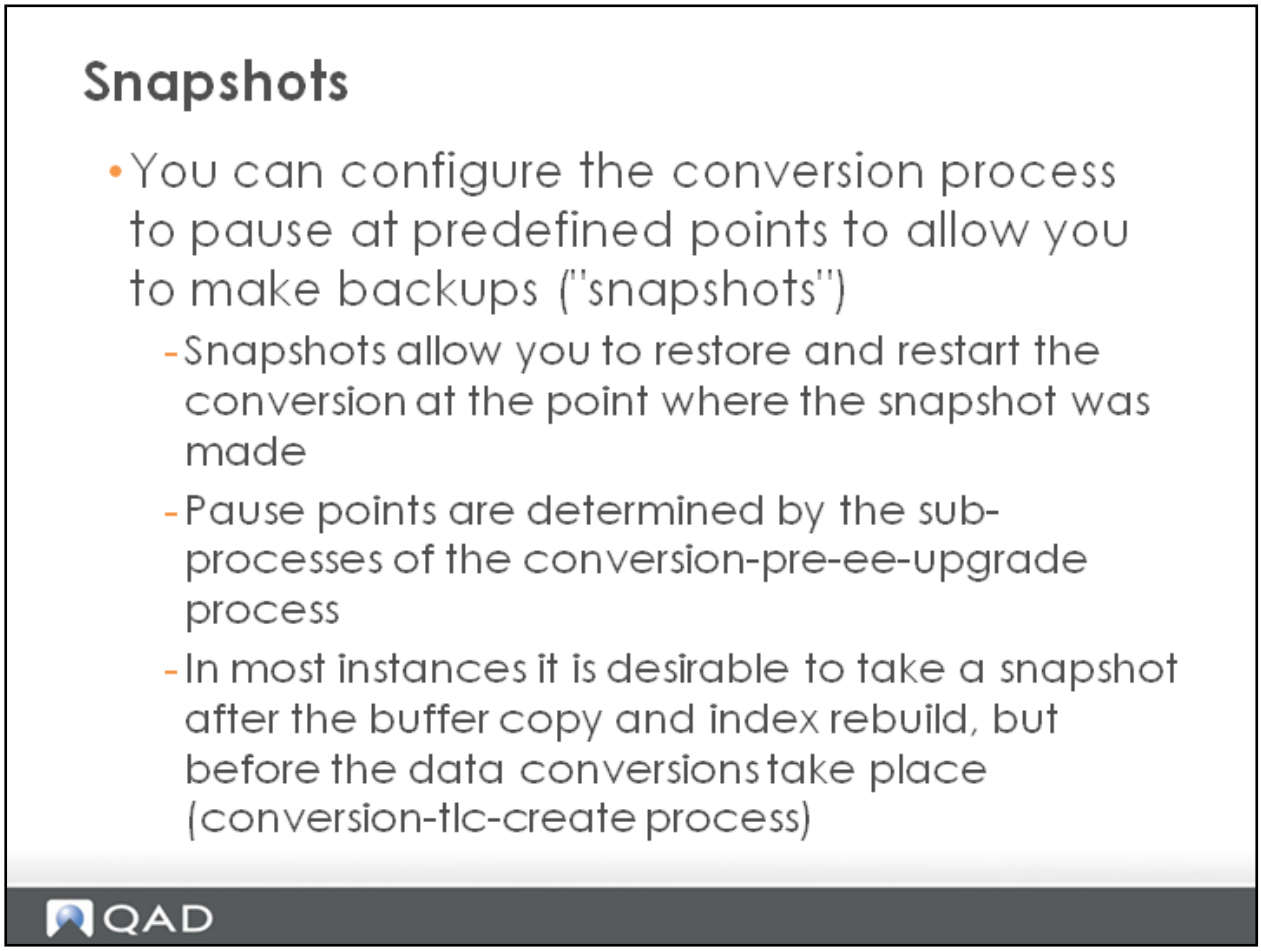


Note: The conversion-pre-ee-upgrade process records state information to ensure that already executed processes are not re-executed. Therefore we must run the conversion-pre-ee-upgrade-reset process before restarting the conversion.

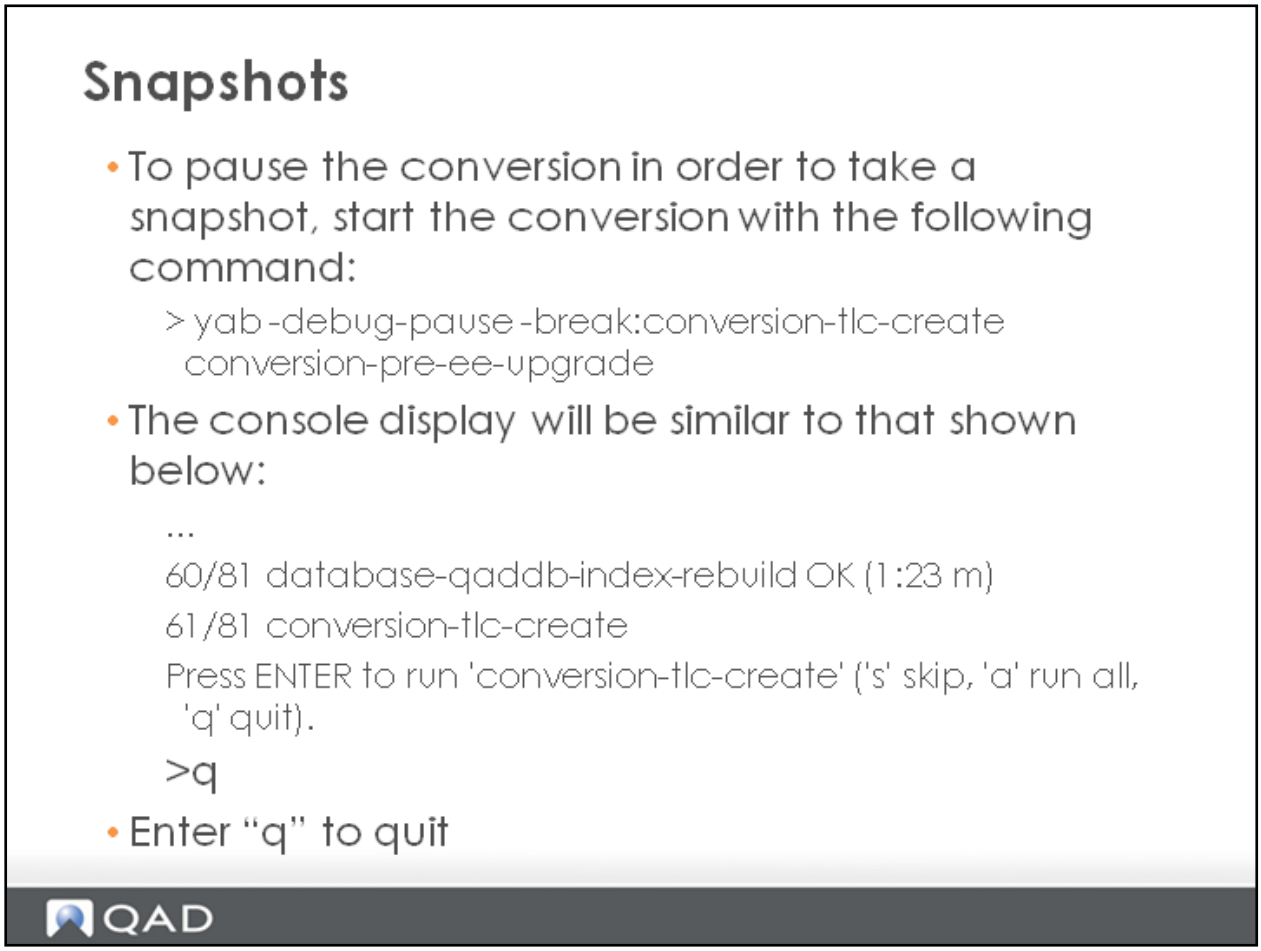
Rerun the Conversion



Snapshots

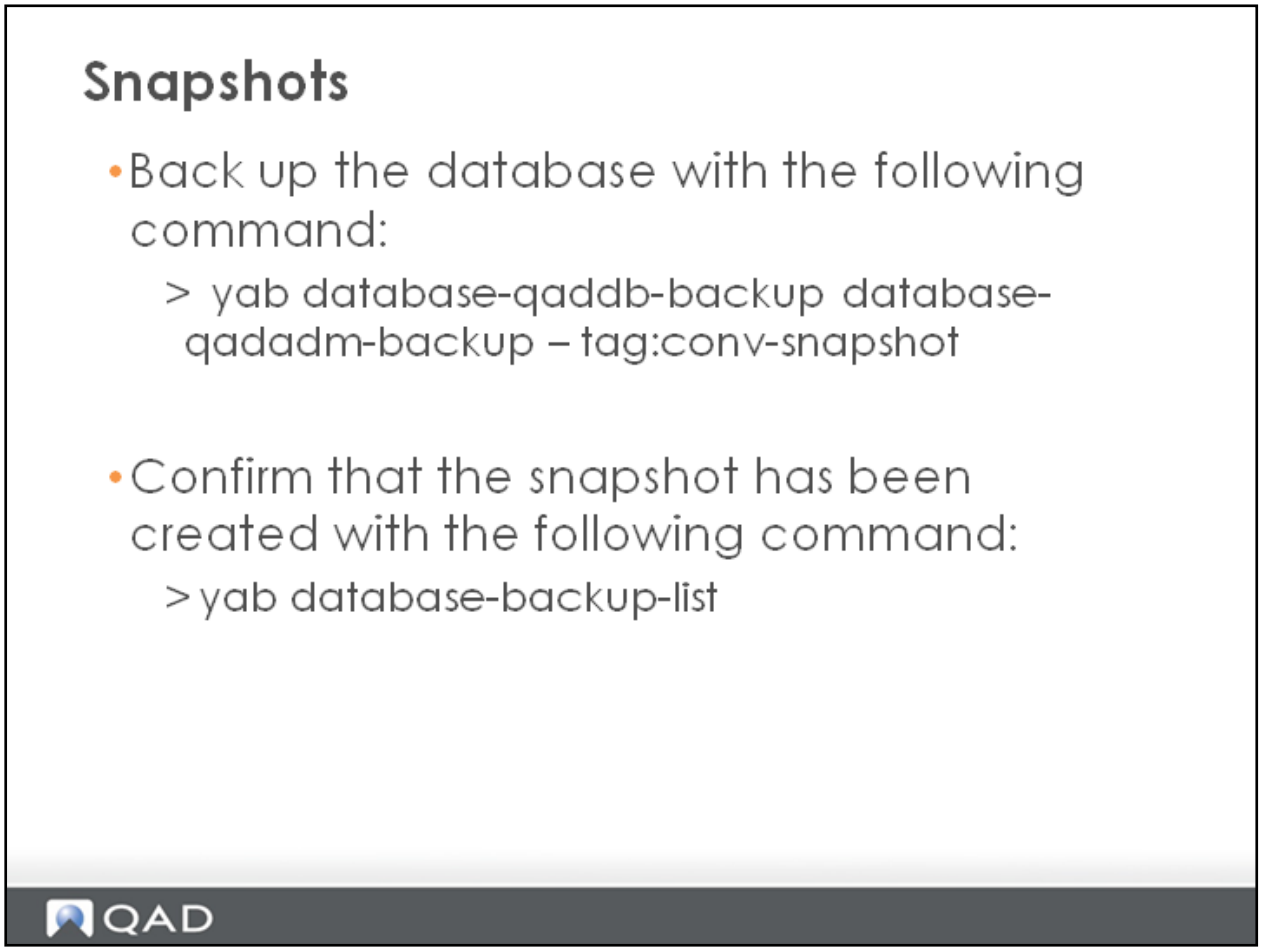

Snapshots
• You can configure the conversion process to pause at predefined points to allow you to make backups ("snapshots")
- Snapshots allow you to restore and restart the conversion at the point where the snapshot was made
- Pause points are determined by the sub-processes of the conversion-pre-ee-upgrade process
- In most instances it is desirable to take a snapshot after the buffer copy and index rebuild, but before the data conversions take place (conversion-tlc-create process)
QAD

Snapshots

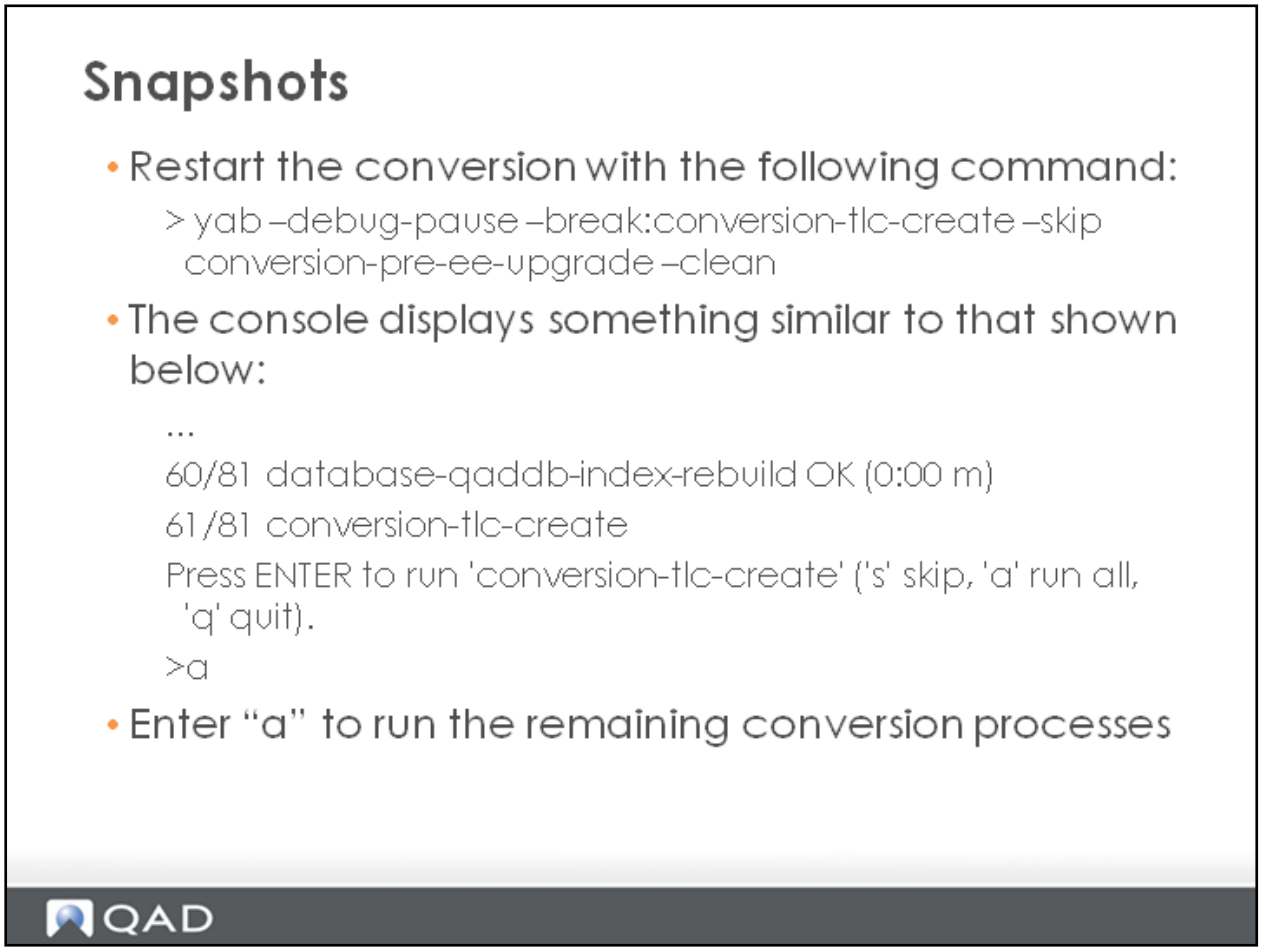


Note: The above command stops the conversion at the conversion-tlc-create stage. You can replace this with the pause point of your choice.

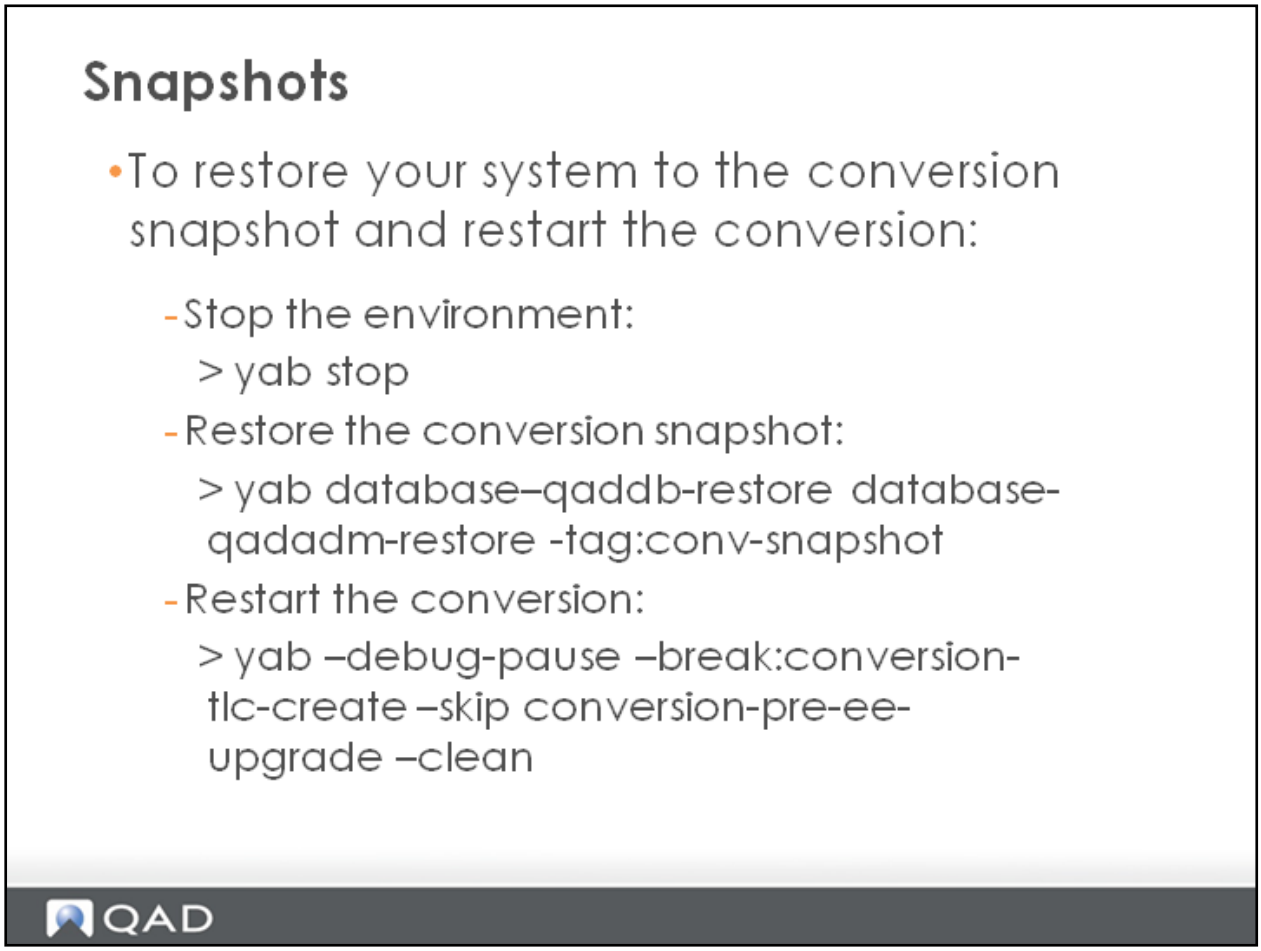
Snapshots


Snapshots
• Back up the database with the following command:
> yab database-qaddb-backup database-qadadm-backup – tag:conv-snapshot
• Confirm that the snapshot has been created with the following command:
> yab database-backup-list
QAD

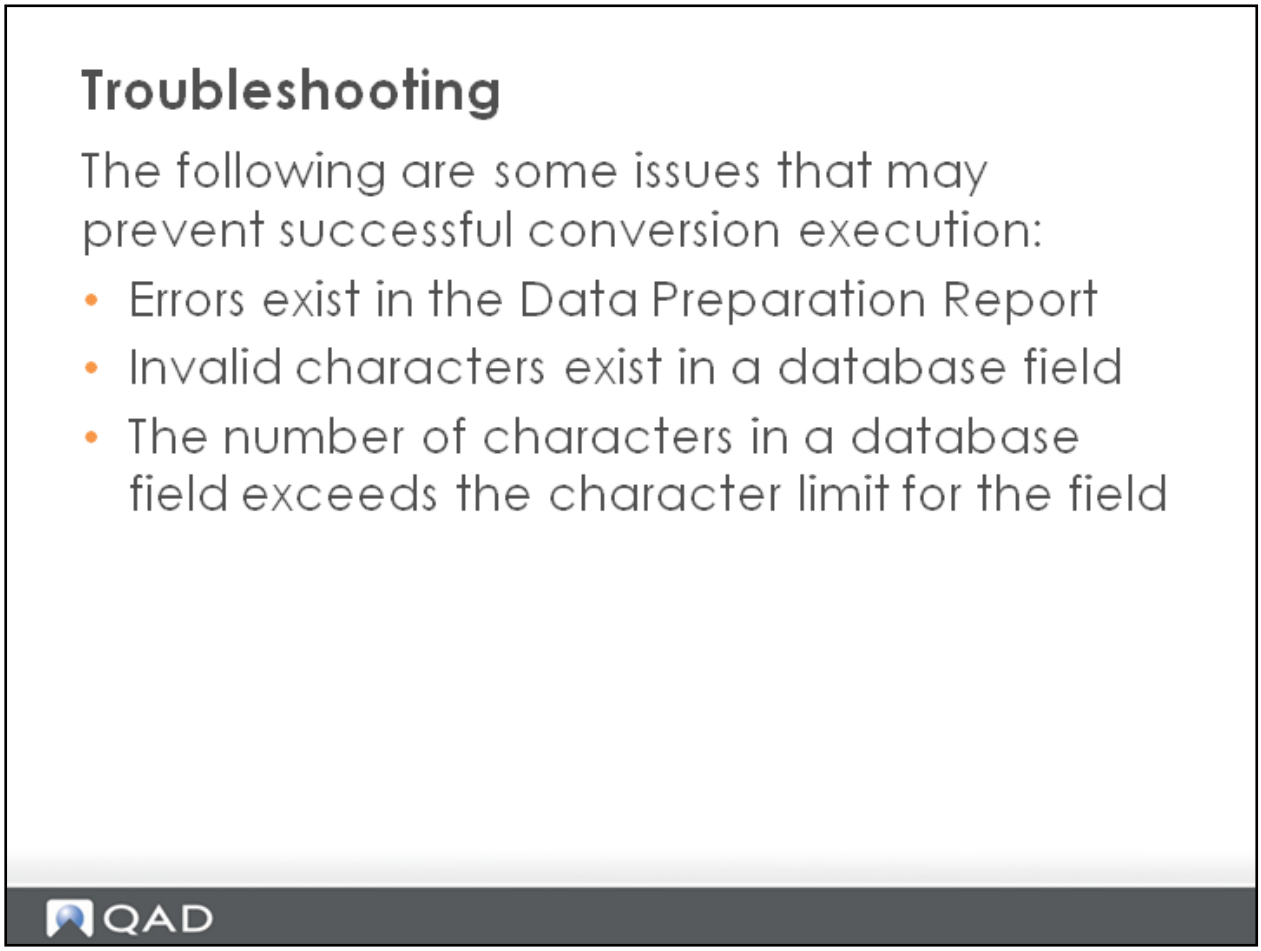
Snapshots


Snapshots
• Restart the conversion with the following command:
> yab –debug-pause –break:conversion-tlc-create –skip conversion-pre-ee-upgrade –clean
• The console displays something similar to that shown below:
...
60/81 database-qaddb-index-rebuild OK (0:00 m)
61/81 conversion-tlc-create
Press ENTER to run 'conversion-tlc-create' ('s' skip, 'a' run all, 'q' quit).
>a
• Enter "a" to run the remaining conversion processes
QAD

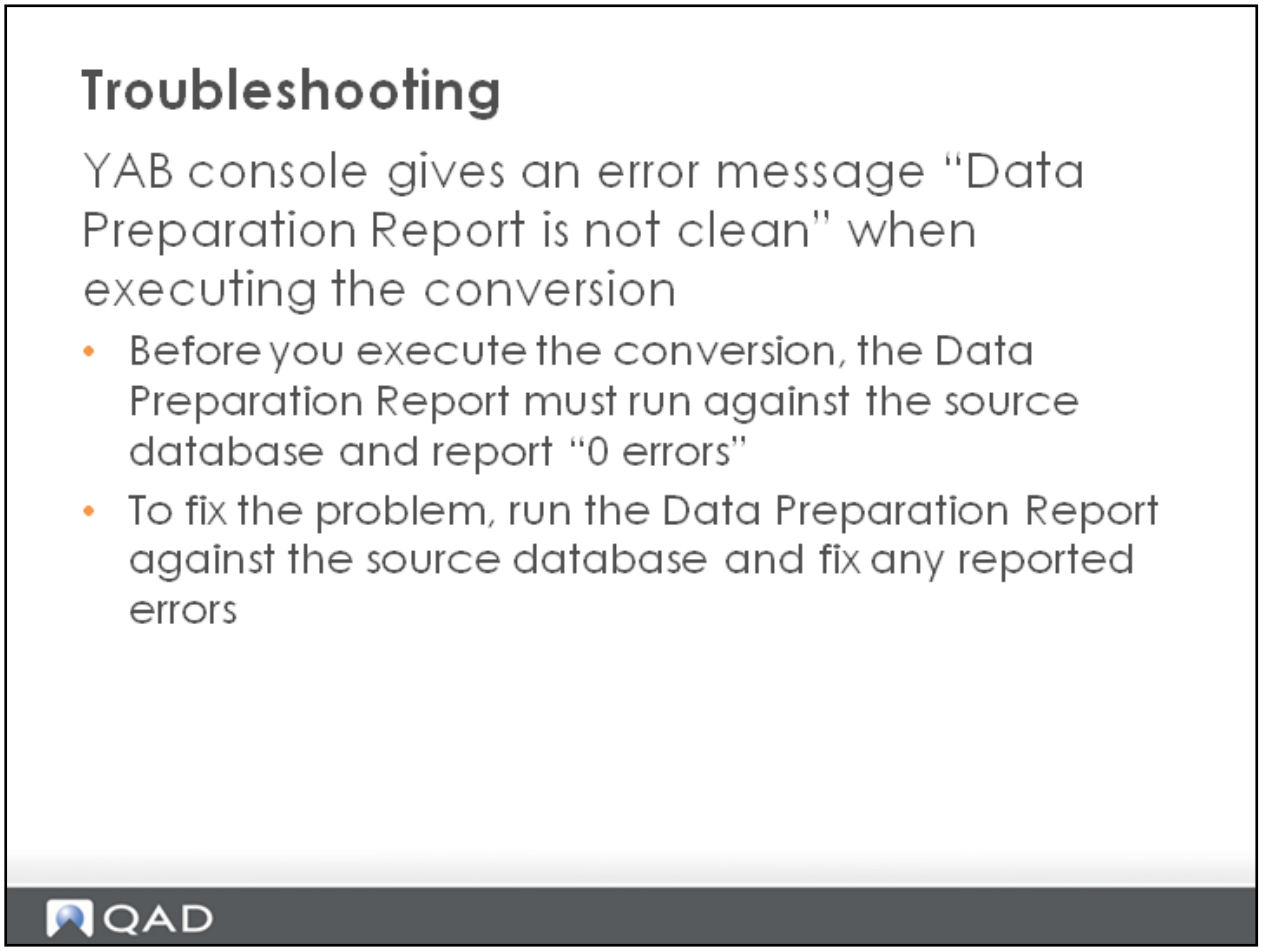
Snapshots


Snapshots
•To restore your system to the conversion snapshot and restart the conversion:
-Stop the environment:
> yab stop
-Restore the conversion snapshot:
> yab database–qaddb-restore database-qadadm-restore -tag:conv-snapshot
-Restart the conversion:
> yab –debug-pause –break:conversion-tlc-create –skip conversion-pre-ee-upgrade –clean
QAD

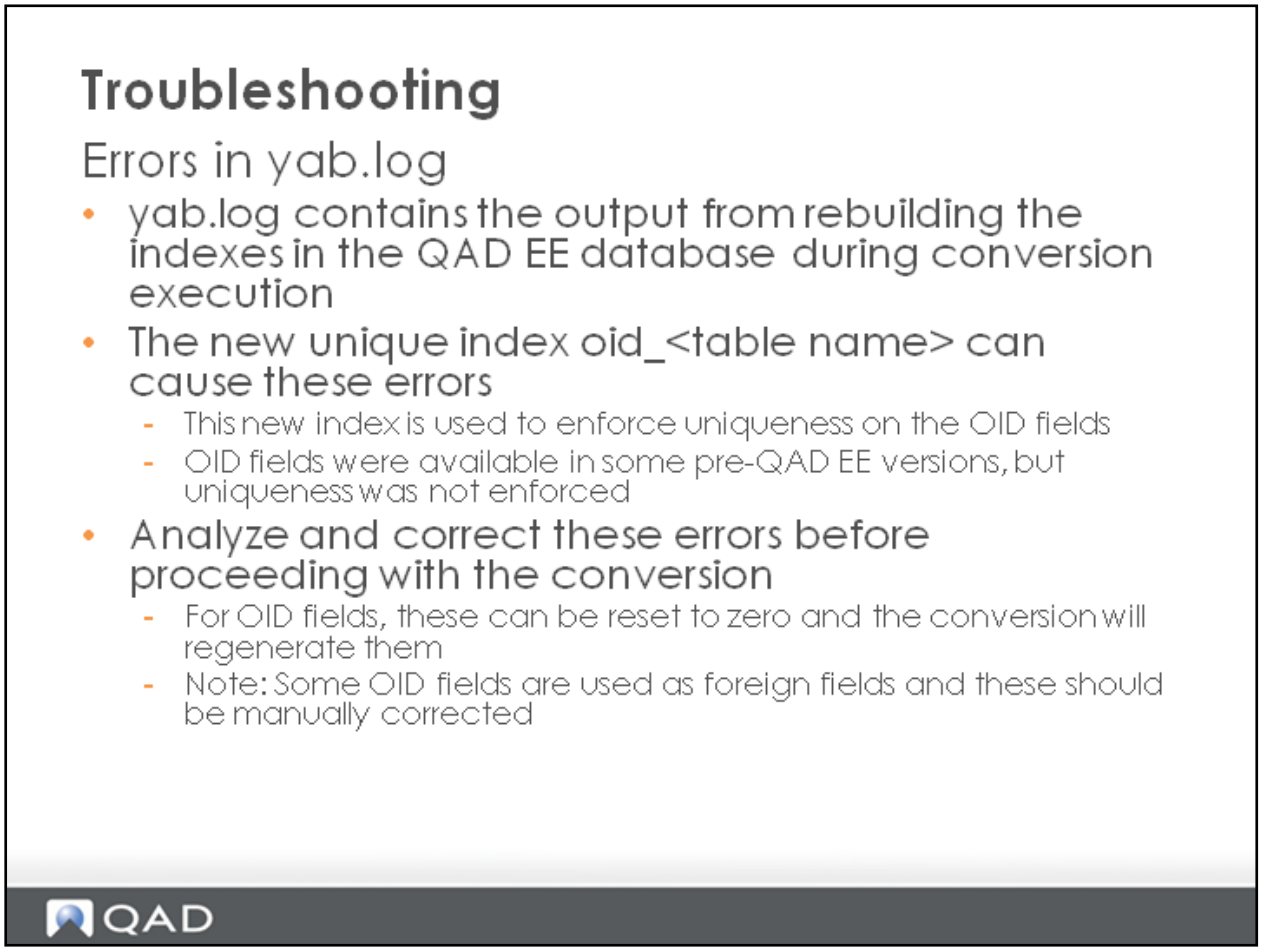
Troubleshooting



Troubleshooting

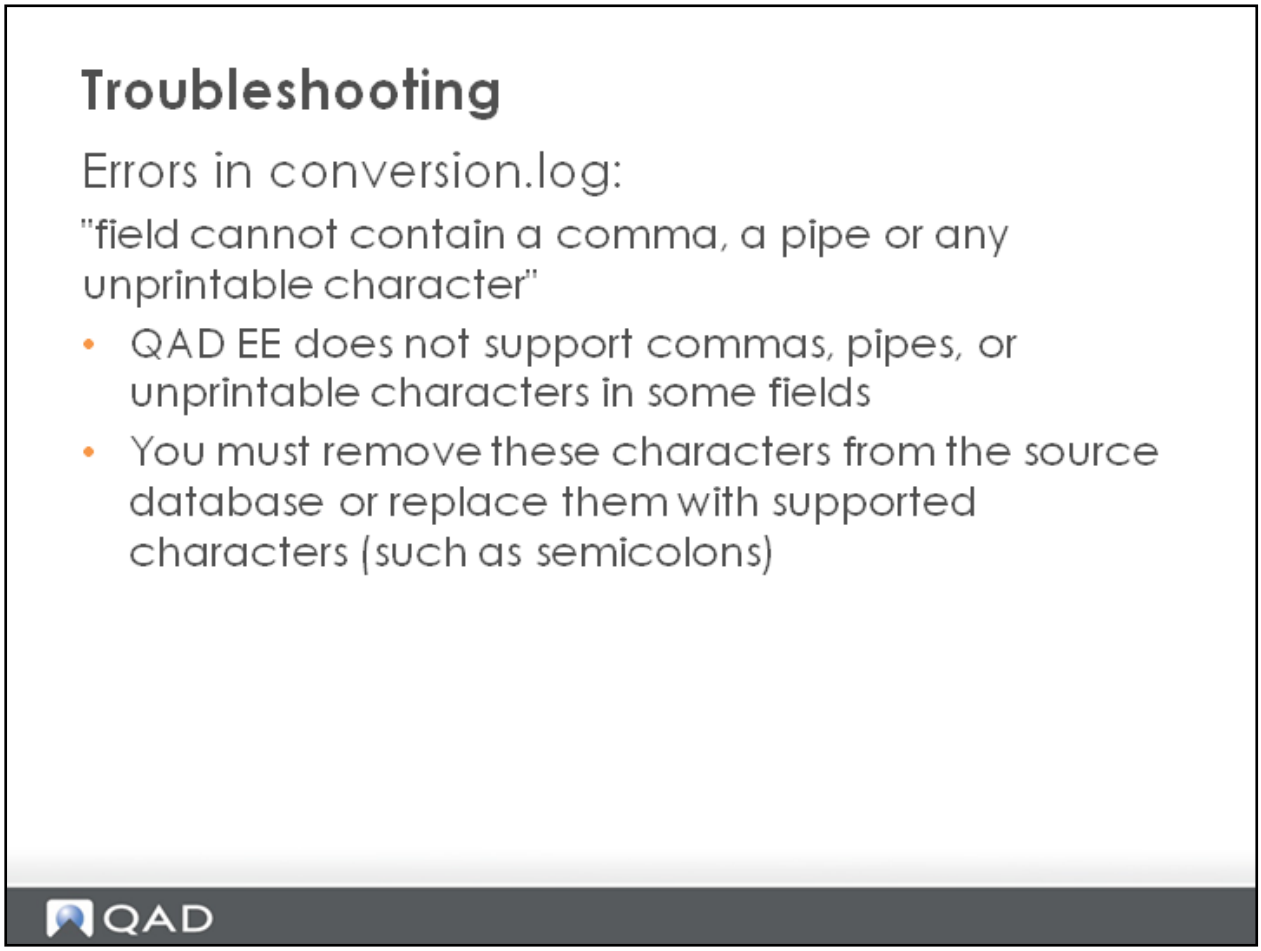


Troubleshooting



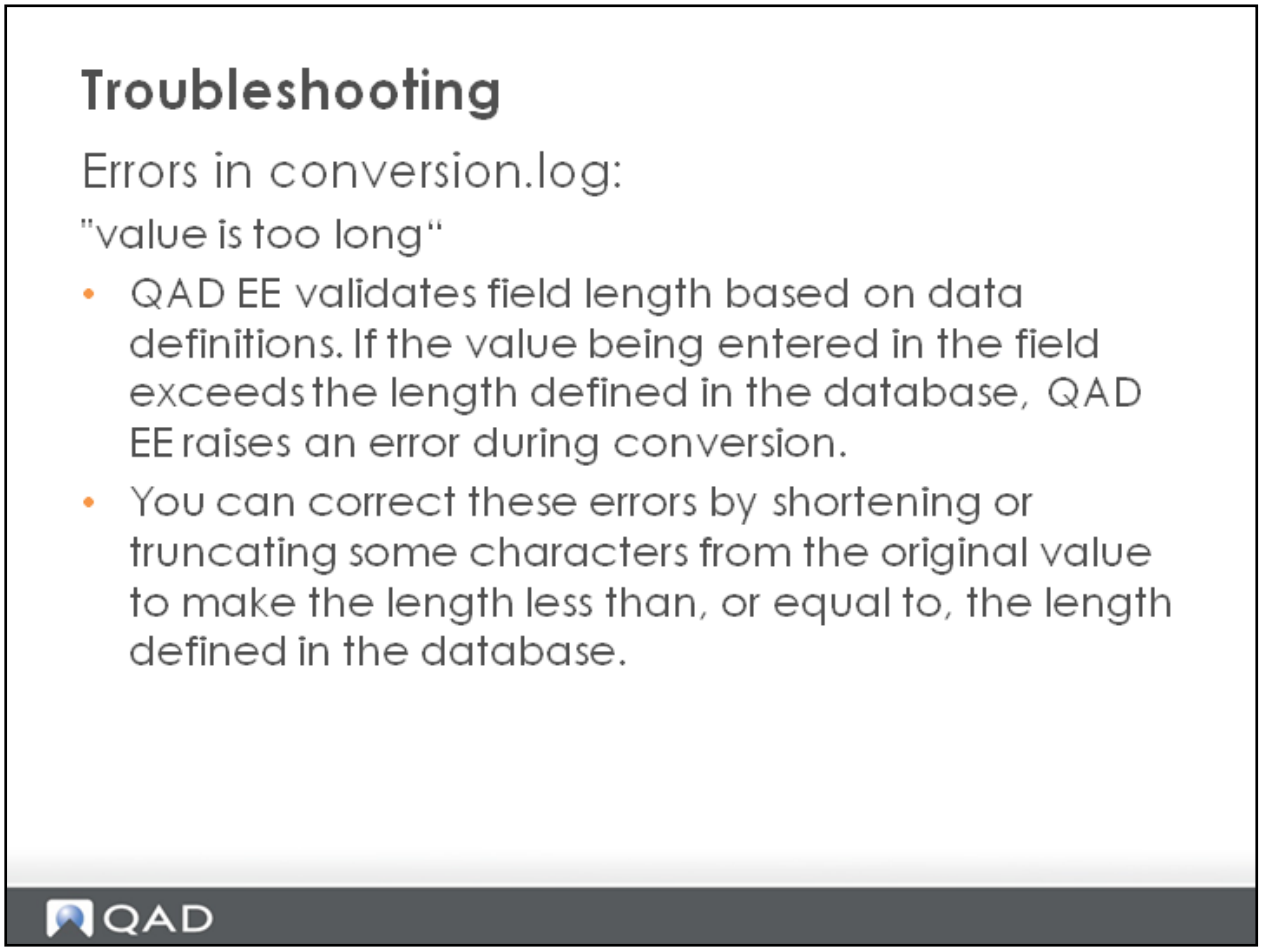
If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting



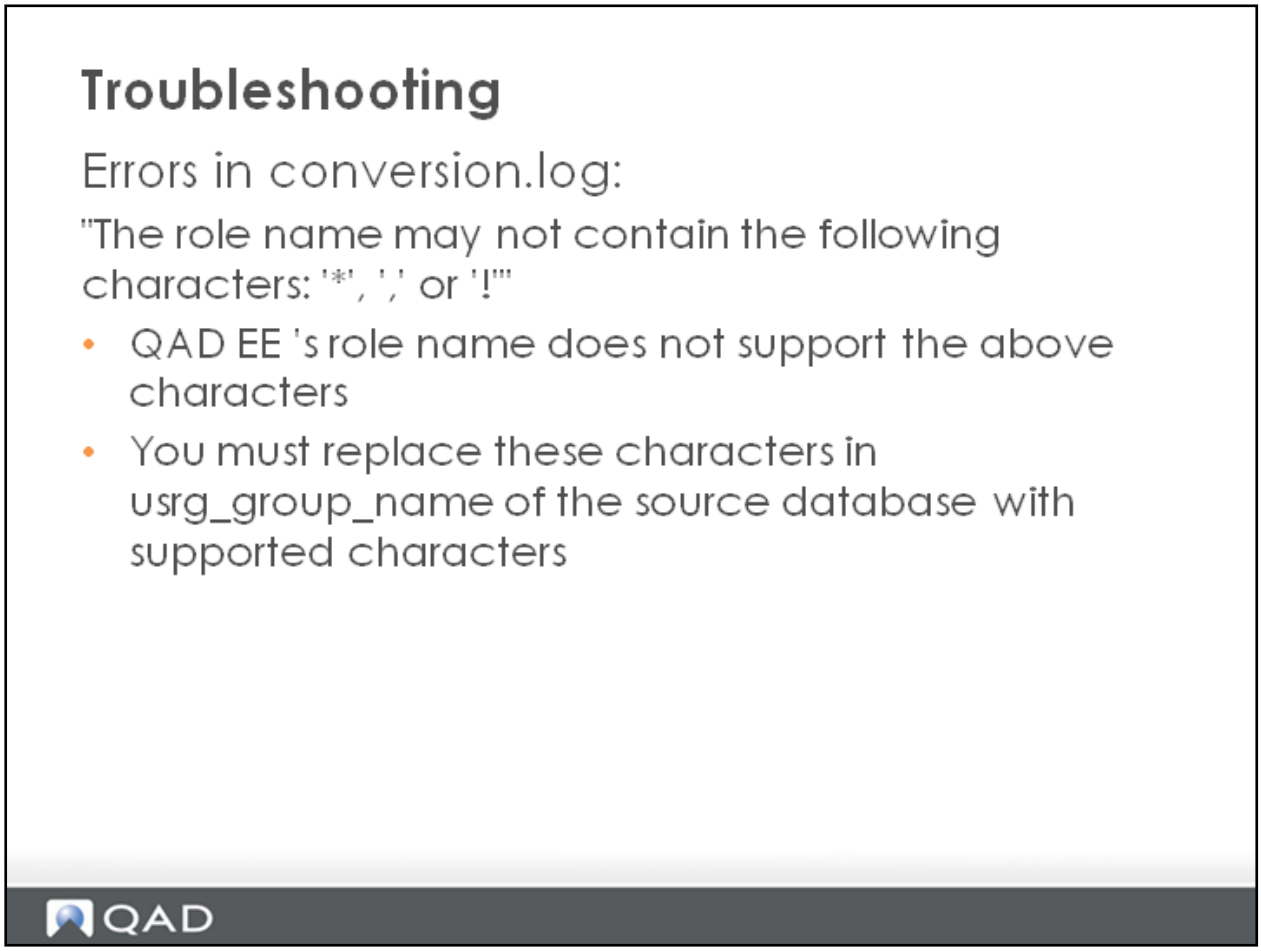
If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting



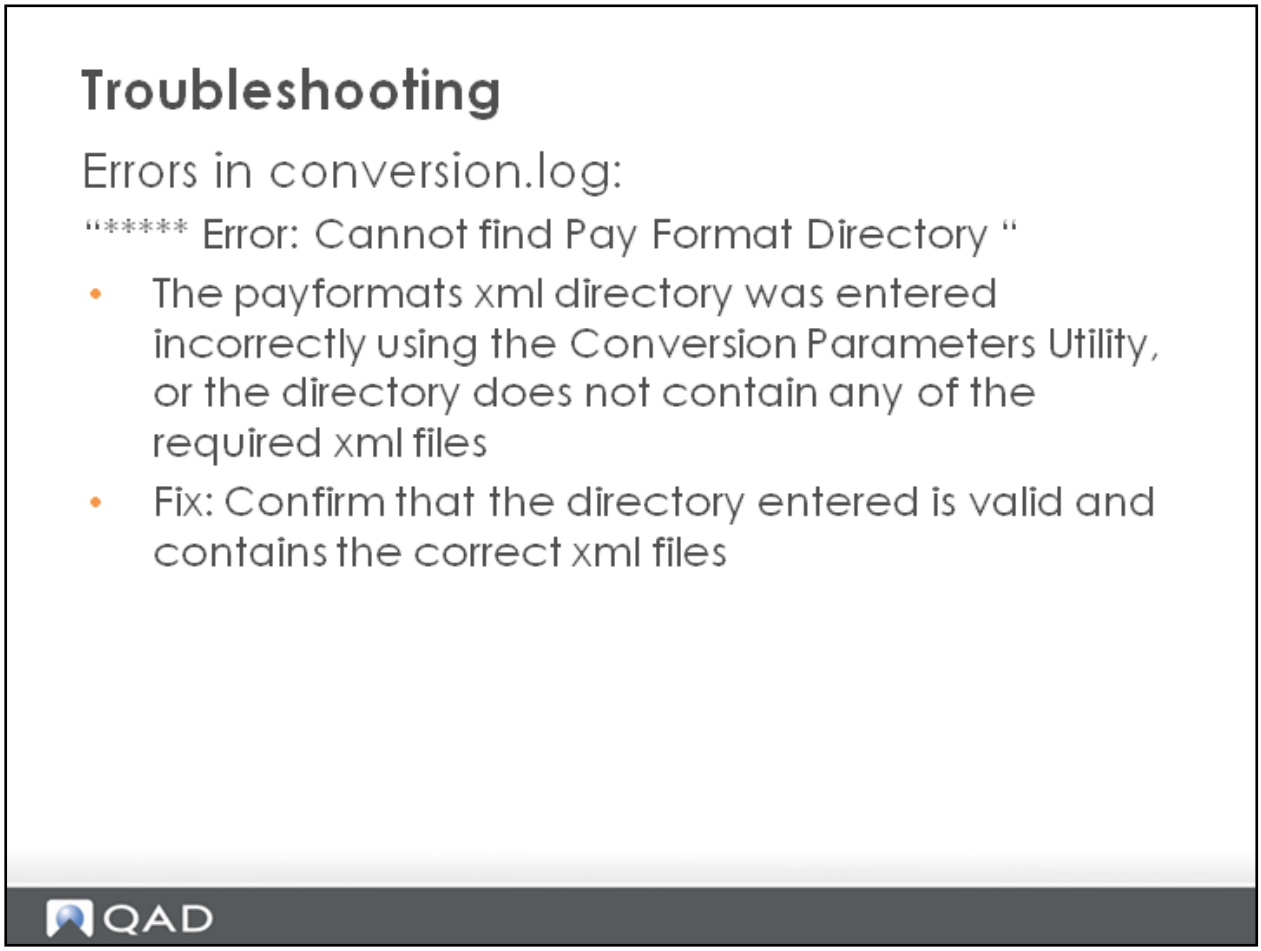
If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting



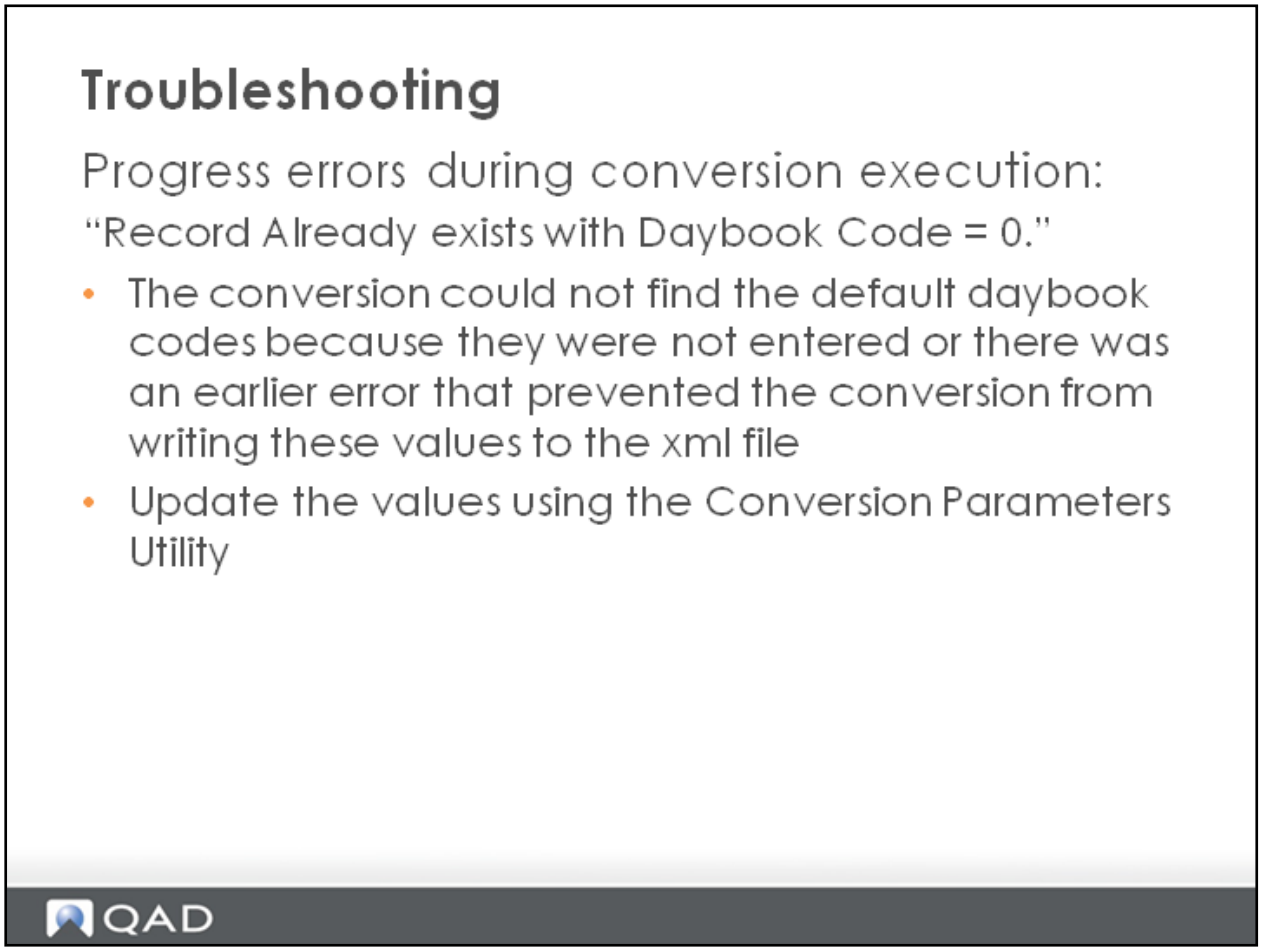
If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting



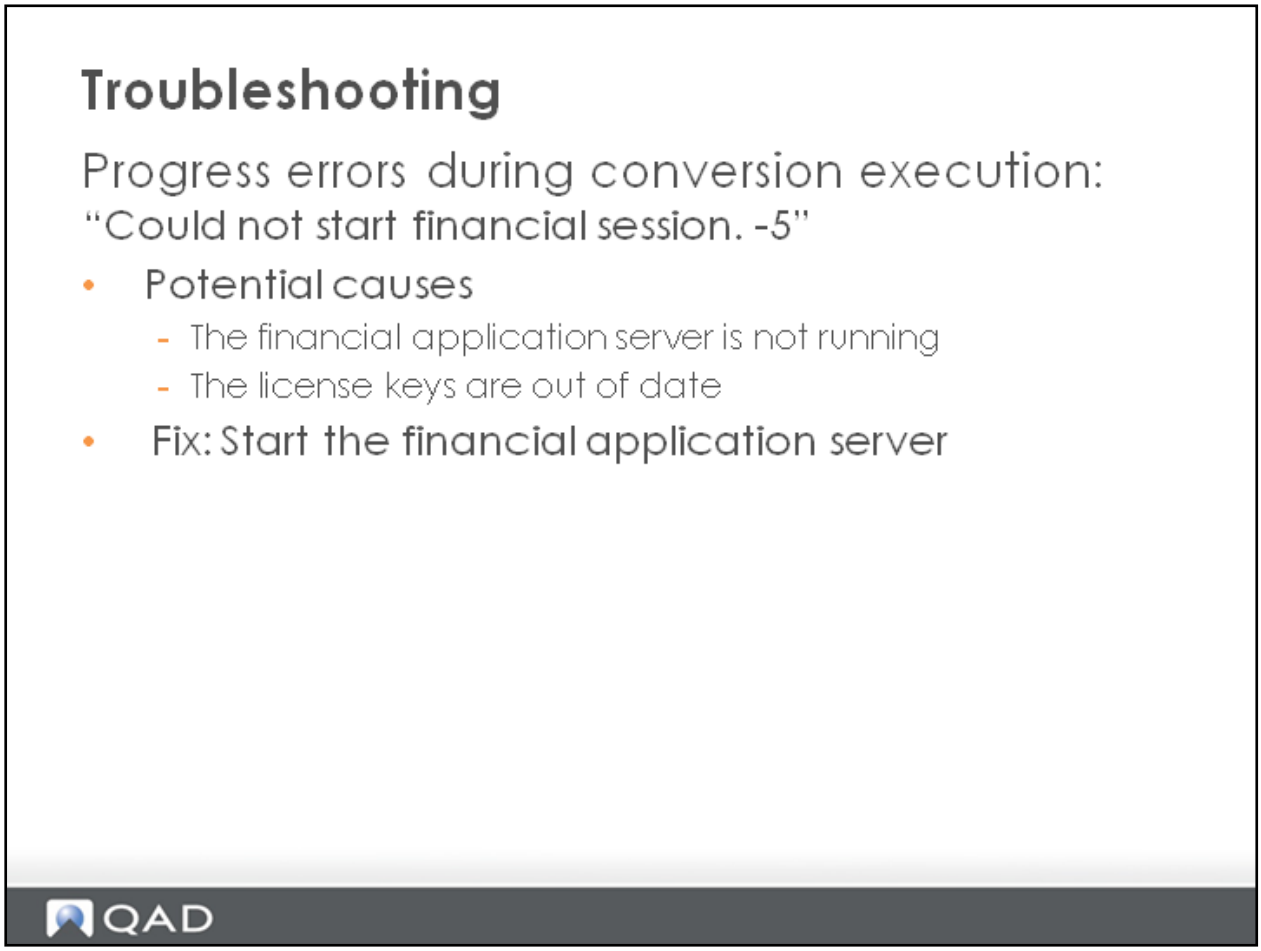
If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting



If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Troubleshooting

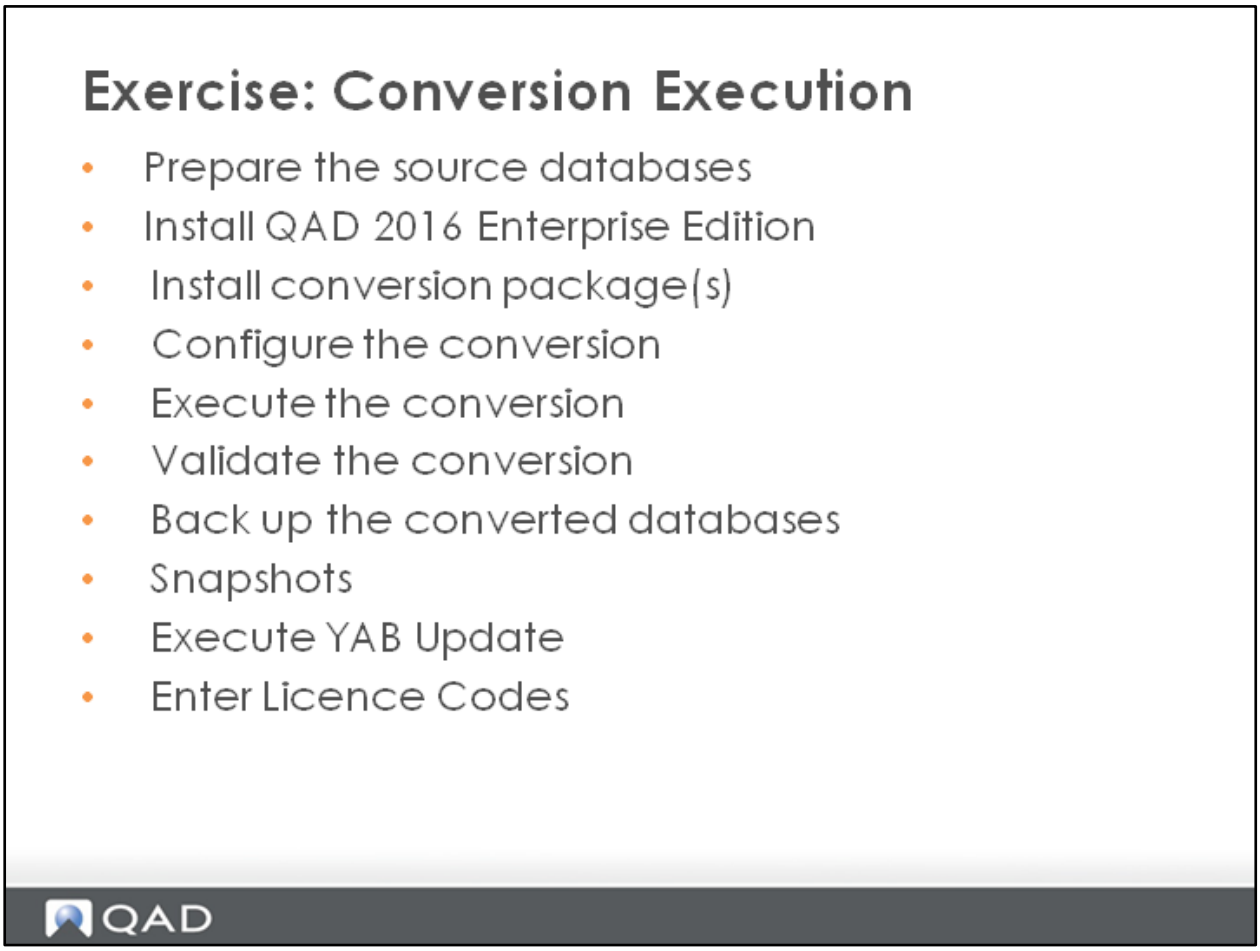


If the conversion or upgrade execution failed and terminated prematurely, determine the root cause, correct it, reset (yab conversion-pre-ee-upgrade-reset command), and then restart (yab conversion-pre-ee-upgrade command) the conversion.

Questions?



Lab Exercise - Conversion Execution Lab



Note: All further activities for this exercise should be carried out on the Linux server as user: mfg

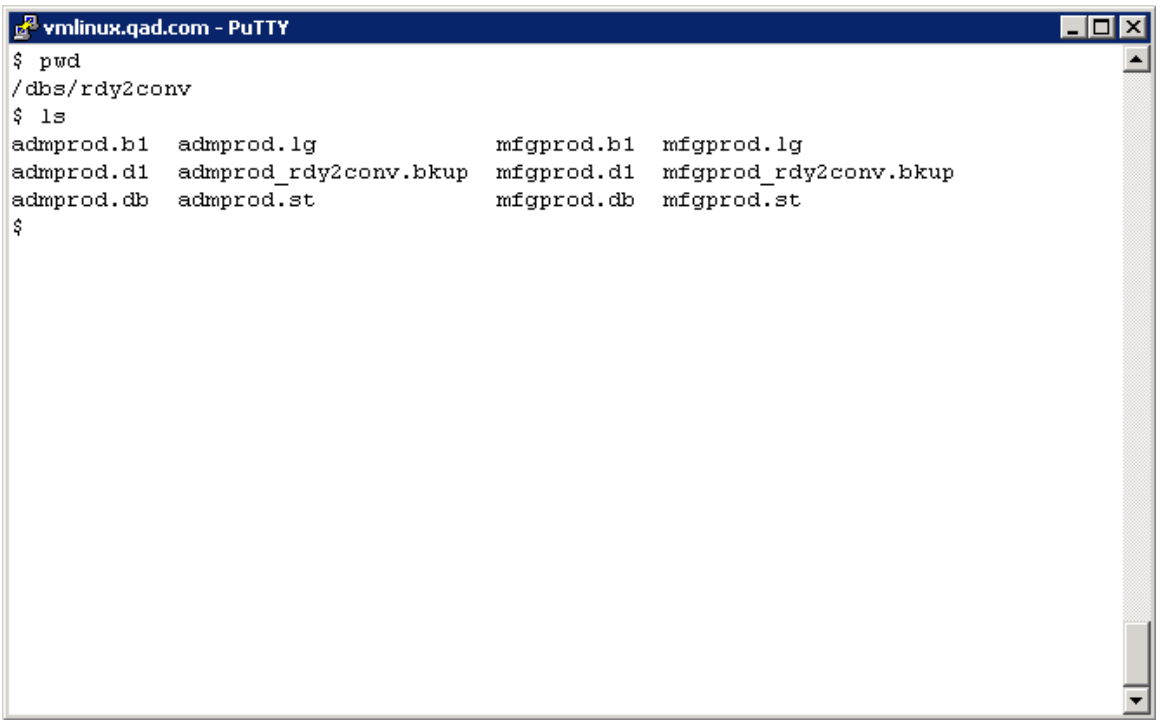
Login : mfg

Password : qad

Restore the Source Databases

Restore backups in the rdy2conv directory:

- `$ cd rdy2conv`
- `$ prorest mfgprod mfgprod_rdy2conv.bkup`
- `$ prorest admprod admprod_rdy2conv.bkup`



Convert the Source Databases from OE10 to OE11

1. Truncate BI for each database:

```
$ cd /dbs/rdy2conv
$ proutil admprod –C truncate BI
$ proutil mfgprod –C truncate BI
```

2. Set DLC:

```
$ cd /qadapps/qadee/scripts
$ echo $DLC
$ . ./pset
$ echo $DLC
```

Note: The above script (pset) is provided for convenience and will be installed during the QAD2016 EE installation.

3. Convert databases to OE11:

```
$ cd /dbs/rdy2conv
$ proutil admprod –C conv1011
$ proutil mfgprod –C conv1011
```

Install Enterprise Edition

Create a new install of QAD 2016EE. For the purpose of this training course, QAD 2016EE has been installed for you in the following location:

```
$ /qadapps/qadee
```

Conversion Prerequisites

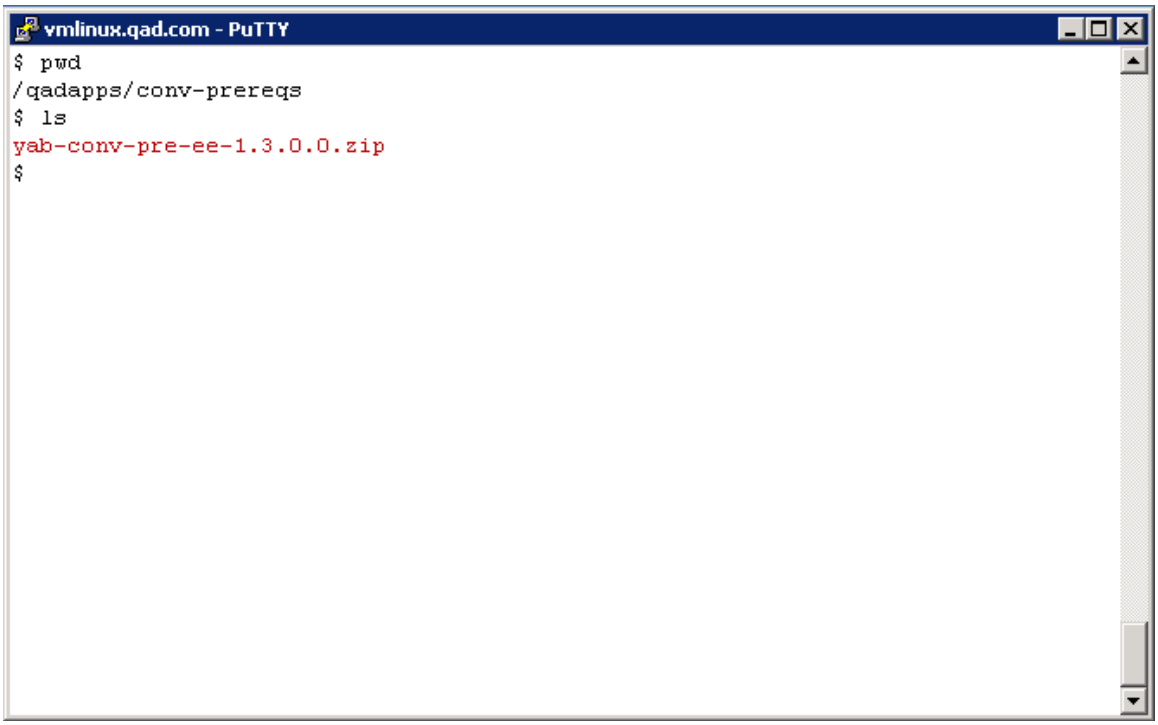
Download the conversion packages, yab patch, and Enterprise Financials Patch as shown below:

Package Name	Minimum Version	Description
yab-conv-pre-ee	1.3.0.0	A package that contains the process to execute pre-EE to EE conversion. Note: This package is restricted to approved customers only.
yab-conv-ee	2016.0.1.0	A package that contains the EE conversion programs.
yab-patch	1.3.1.1	An image, made up of multiple packages, that contains the latest YAB software.
qad-ee-fin-patch	2016.0.1.0	An image, made up of multiple packages, that contains the 2016 Financials Patch 1 software.

Note: For the purpose of this training course, the necessary `yab-conv-ee`, `yab-patch` and `qad-ee-fin-patch` are already installed. Before starting your own installation, check the *QAD Enterprise Edition Conversion Guide* for the latest guidance.

The `yab-conv-pre-ee` package has been downloaded for you and is located in the following directory:

```
$ /qadapps/conv-prereqs
```

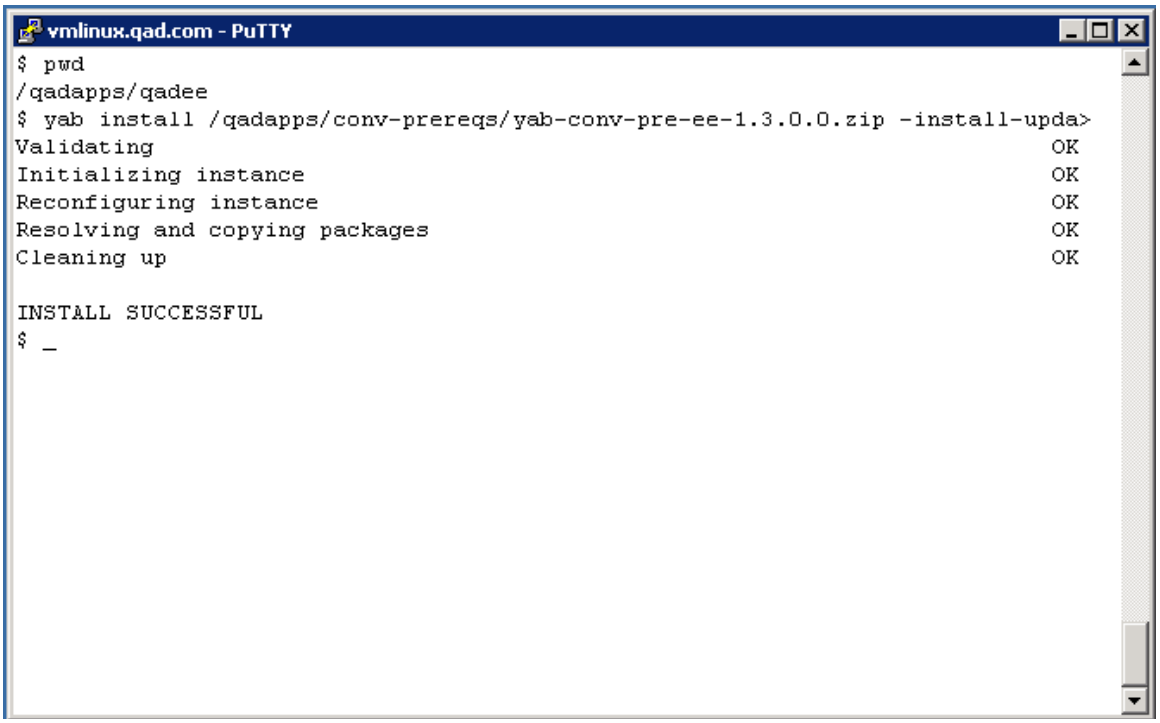


Install the Conversion Package

Install the package with the following commands:

```
$ cd /qadapps/qadee

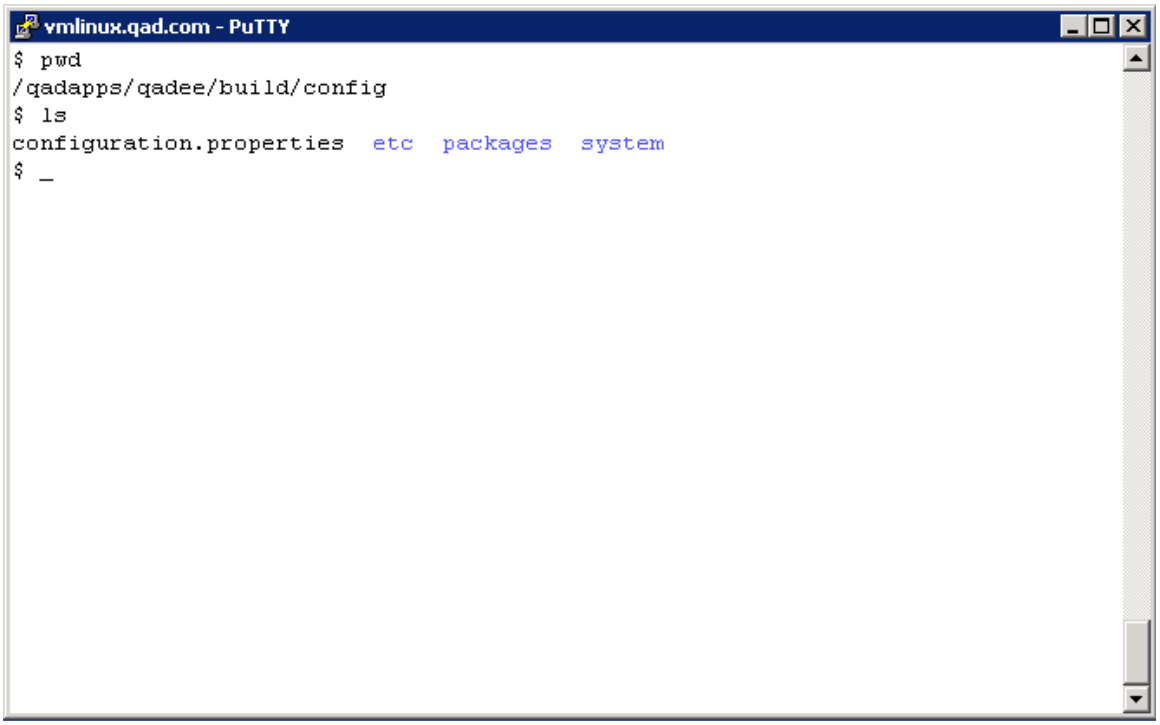
$ yab install /qadapps/conv-prereqs/yab-conv-pre-ee-1.3.0.0.zip -
install-update:false
```



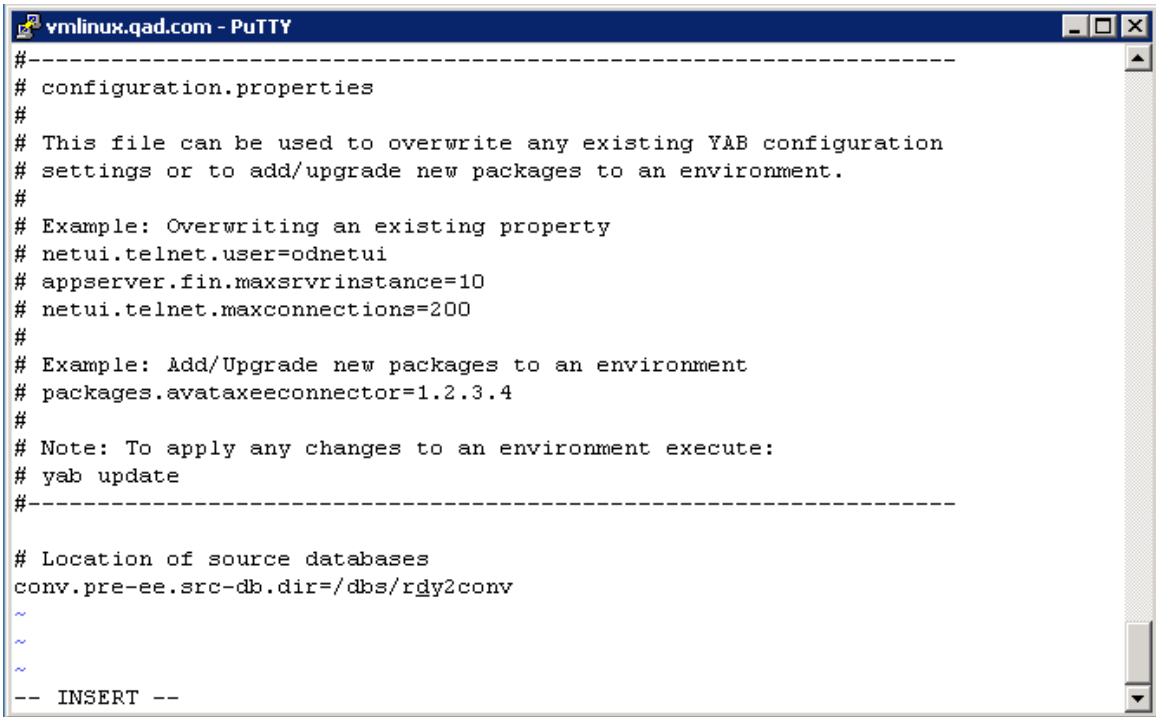
Configure the Conversion

1. Locate the `configuration.properties` file:

   ```
   $ cd /qadapps/qadee/build/config
   ```



2. Modify `configuration.properties` to include the location of the source databases to be converted:



3. Make sure to save your changes.

   The conversion-pre-ee-upgrade process has a number of optional configuration properties (see table below). While it is not necessary to change the default values for any of these properties for the purposes of this training, you should familiarize yourself with these properties and their default values.

Properties	Default	Description
conv-ui.ACDATE	None	ECommerce Turnaround data last accessed date. If blank the conversion uses the current date; that is, today.
conv-ui.ACUSER	mfg	ECommerce Turnaround data last accessed User ID. A value is required.
conv-ui.CRDATE	None	ECommerce Turnaround data creation date. If blank the conversion uses the current date; that is. today.
conv-ui.CRUSER	mfg	ECommerce Turnaround data creation user ID. A value is required.
conv-ui.costpoint01	Usage	Designate the source of the item PO cost to use for supplier consigned purchase orders in Accounts Payable.

		Only a value of Usage or Receipt is permitted.
conv-ui.dom_domain	test	Only used when converting from source version 92a or earlier (86e, 90, 91,92,92a). No validation.
conv-ui.dom_name	conversion	Required when converting from 86e,90,91,92,92a. No validation.
conv-ui.dom_sname	test	Required when converting from 86e,90,91,92,92a. No validation.
conv-ui.dbtype	Progress	The database type, which by default is Progress. Only a value of Progress is permitted.
conv-ui.prlistassignto	1	Designate existing price lists used for scheduled orders and/or RMA receipts as Customer or Supplier price lists. Only a value of 1 or 2 is permitted.

To change a default property value, add the property and the new value to `configuration.properties`. For example, the following changes the `conv-ui.costpoint01` property default value of 'Usage' to 'Receipt':

```
conv-ui.costpoint01=Receipt
```

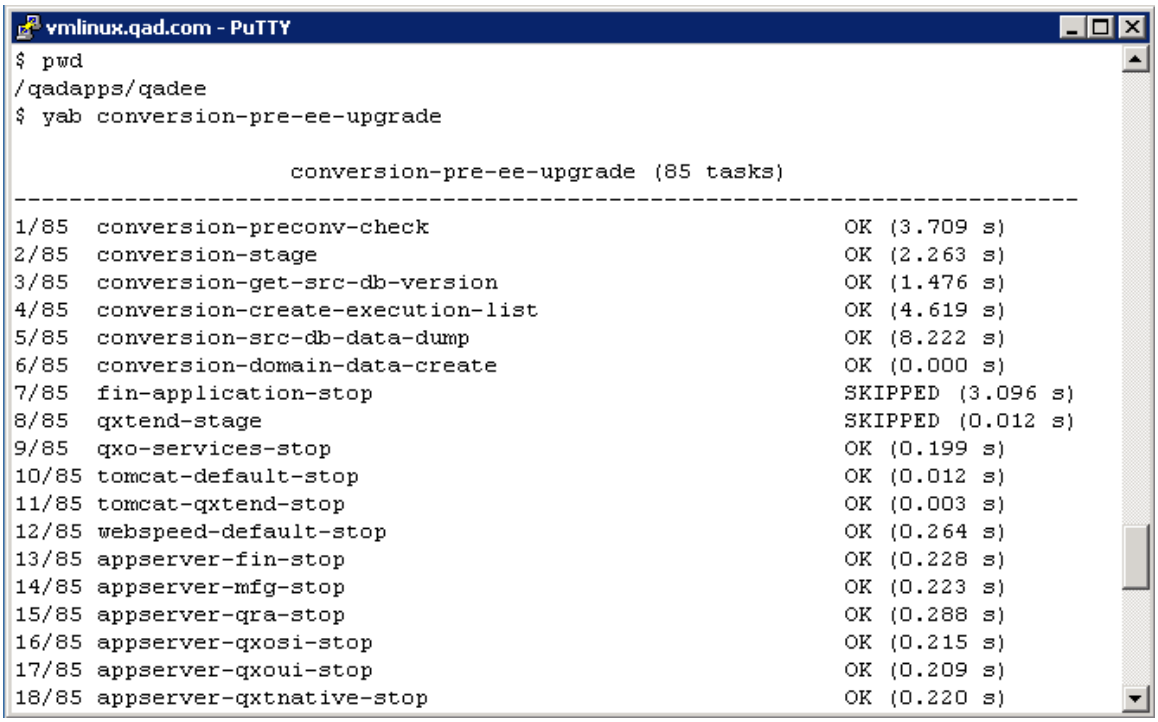
To view more detailed information for each configuration setting, use the `yab help` command.

Execute the Conversion

1. Start the conversion with the following command:

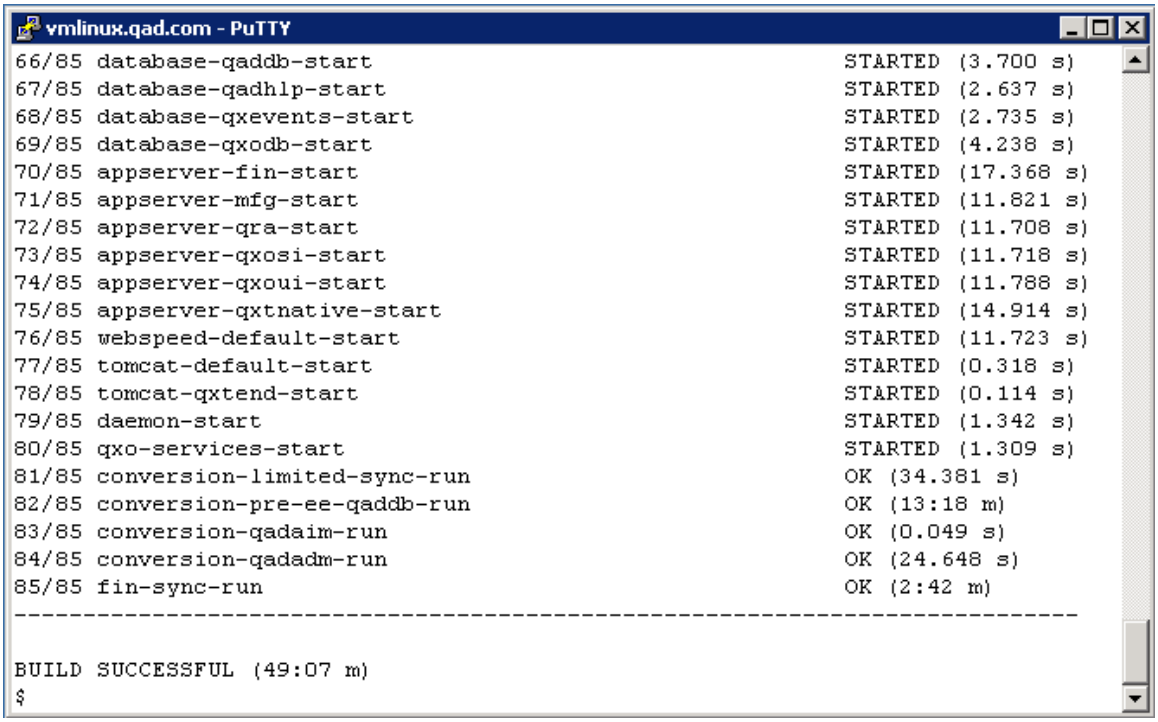
```
$ cd /qadapps/qadee
$ yab conversion-pre-ee-upgrade
```

The console output will be similar to that shown below:



2. The conversion will proceed until it completes or an error occurs. No further input is required until the conversion ends.

   Note: For this training environment it is estimated that the `conversion-pre-ee-upgrade` process will take 45-60 minutes to complete.



3. Once the `conversion-pre-ee-upgrade` process has completed, the "`BUILD SUCCESSFUL`" message will be displayed as shown above. This message does not mean that the conversion has successfully completed and is without error. It means that the `conversion-pre-ee-upgrade` process is complete.

Review the Log Files

You must now review each process associated with the `conversion-pre-ee-upgrade` process in the `yab.log` file to ensure that each process started and completed successfully.

Note: You can complete the yab.log and conversion..log timing tables in the next section, Conversion Execution Benchmark Performance, as you work through the following activities.

To view the log files, change to the following directory:

```
$ cd /qadapps/qadee/build/logs
```

1. Review `yab.log` output.

   a. Locate log content associated with the Buffer Copy step. Search for:

   ```
   BuildContext – conversion-src-db-buffercopy
   ```

   Confirm that the process completed successfully. Search for:

   ```
   BuildContext – conversion-src-db-buffercopy OK
   ```

   b. Locate log content associated with the index rebuild step and confirm that the process completed successfully. Search for:

   ```
   BuildContext – database-qaddb-index-rebuild
   ```

   ```
   BuildContext – database-qaddb-index-rebuild OK
   ```

   c. Locate log content associated with qaddb conversion step and confirm that the process completed successfully. Search for :

   ```
   BuildContext – conversion-pre-ee-qaddb-run
   ```

   ```
   BuildContext – conversion-pre-ee-qaddb-run OK
   ```

   d. Locate log content associated with qadadm conversion step and confirm that the process completed successfully. Search for :

   ```
   BuildContext – conversion-qadadm-run
   ```

   ```
   BuildContext – conversion-qadadm-run OK
   ```

2. Use the table below to locate any corresponding entries in `conversion.log`.

YAB Process	conversion.log entry
conversion-get-src-db-version	Executing step: get-db-version.p
conversion-create-execution-list	Executing step: create-sel-conv.p
conversion-src-db-data-dump	Executing step: special-dump.p
conversion-src-db-buffercopy	Executing step: run-buffer-copy-src.p
conversion-pre-ee-qaddb-run	Executing step: run-qaddb-conv.p

conversion-qadadm-run	Executing step: run-qadadm-conv.p

3. Thoroughly review the content of the `conversion.log` file. Particular attention should be given to the qaddb conversion.
    a. Review `conversion.log` output.
    b. Locate the start and end of the buffer copy in the `conversion.log`. Search for:

    ```
    Executing step: run-buffer-copy-src.p
    Executing step: run-buffer-copy-src.p complete
    ```

    c. Locate the start and end of the qaddb conversion in the `conversion.log`. Search for:

    ```
    Executing step: run-qadadm-conv.p
    Executing step: run-qadadm-conv.p complete
    ```

4. Particular attention should be given to the qaddb conversion because it includes the transactional conversions; for example, the GL Postings conversion.
    a. Locate the start and end of the qaddb conversion in the `conversion.log`. Search for:

    ```
    Executing step: run-qaddb-conv.p
    Executing step: run-qaddb-conv.p complete
    ```

    b. Locate the start and end of the GL Postings conversion in the `conversion.log`. Search for:

    ```
    [GL Postings] Conversion started
    [GL Postings] Conversion completed
    ```

Conversion Execution Benchmark Performance

Using the conversion logs, populate the following tables. The logs are located in the following directory:

```
$ /qadapps/qadee/build/logs
```

yab.log timings:

Process	Start-Time	End-Time	**Duration(hrs)**
BufferCopy			
IndexRebuild			
QADDB Conversion			
QADADM Conversion			
TOTAL			

conversion.log timings:

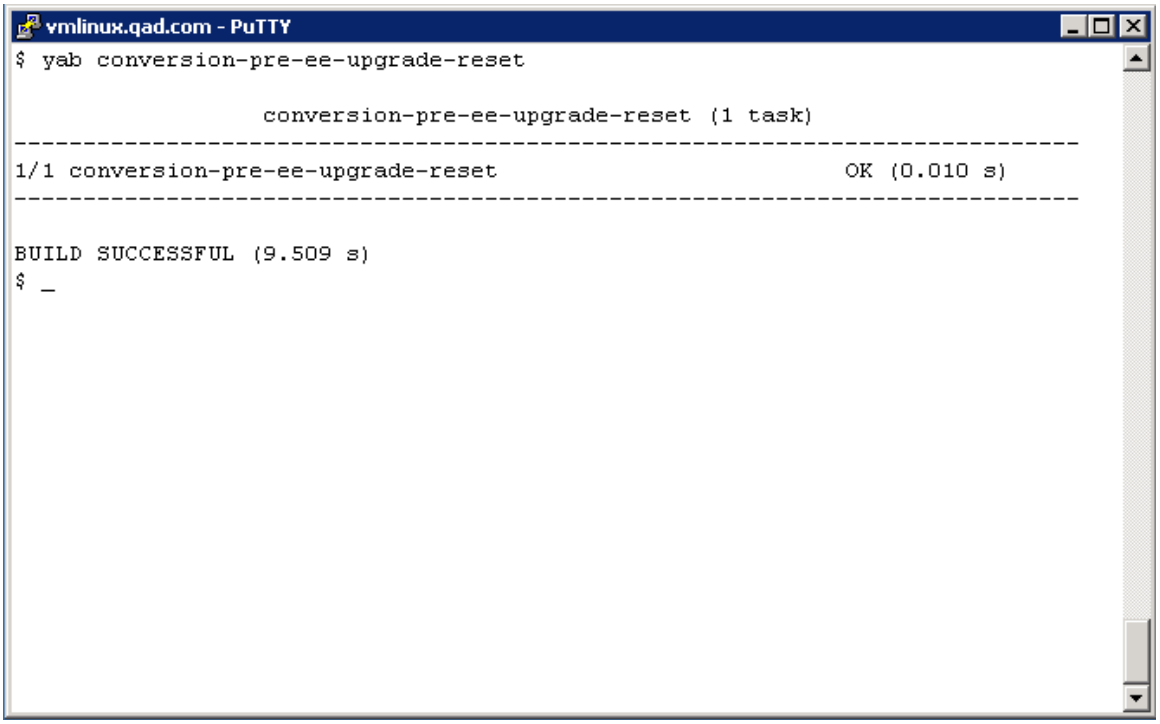
Process	Start-Time	End-Time	Duration(hrs)
GL Posting Conversion Search for: [GL Postings]			
Customer Invoice Conversion Search for: [AR Invoices]			
Supplier Invoice Conversion Search for: [AP Invoices]			
Customer Payments Conversion Search for: [AR Payments]			
Supplier Payments Conversion Search for: [AP Payments]			
TOTAL			

Note: Timings for individual transactional conversions are particularly useful when assessing the impact of Delete/Archive activities during test conversions.

Rerunning a Conversion

If you want to rerun the conversion from the beginning, you must first reset the `conversion-pre-ee-upgrade` process. Reset the conversion with the following command:

```
$ yab conversion-pre-ee-upgrade-reset
```



Execute the Conversion with Snapshots

You can configure the conversion process to pause at a predefined point to allow you to make backups (snapshots). Snapshots allow you to easily restore and restart the conversion at the point where the snapshot was made.

The available pause points are determined by the sub-processes of the `conversion-pre-ee-upgrade` process. For a full list, run the following command:

```
$ yab system-process-list conversion-pre-ee-upgrade
```

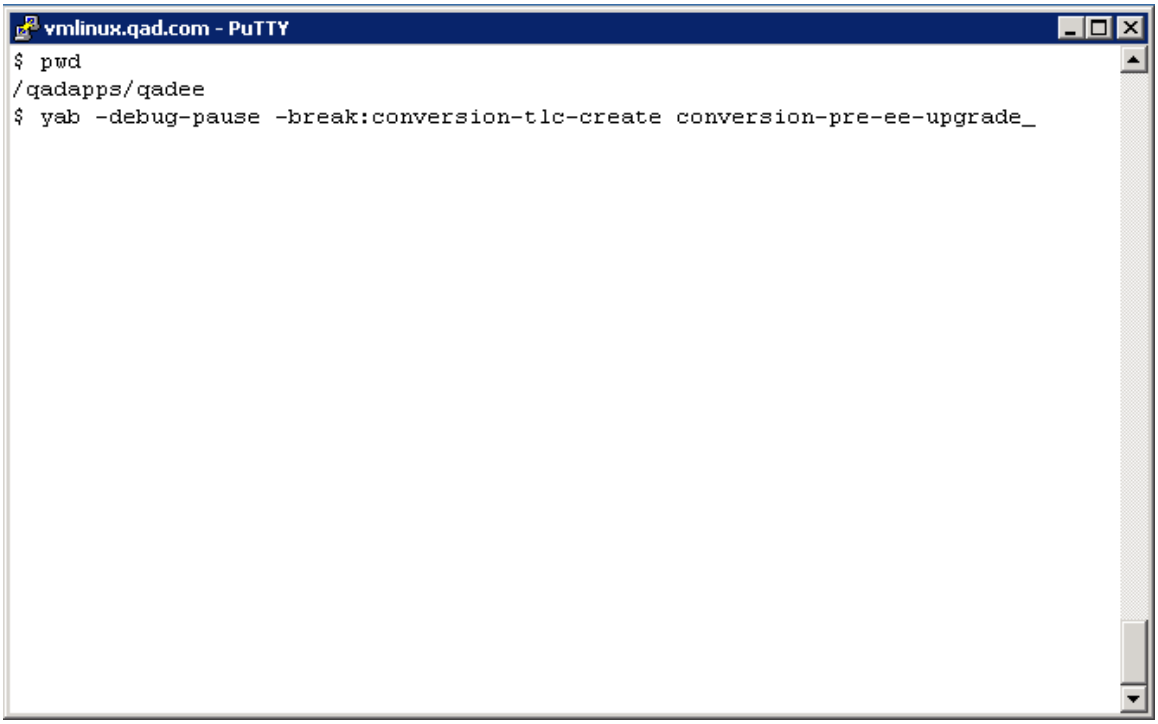
In most instances, it is desirable to take a snapshot after the buffer copy and index rebuild are complete but before the data conversions take place. An ideal process at which to pause the conversion is the `conversion-tlc-create` stage.

In the following exercise, we will rerun the conversion, making use of “Conversion Snaphots” and pausing the conversion at the `conversion-tlc-create` stage.

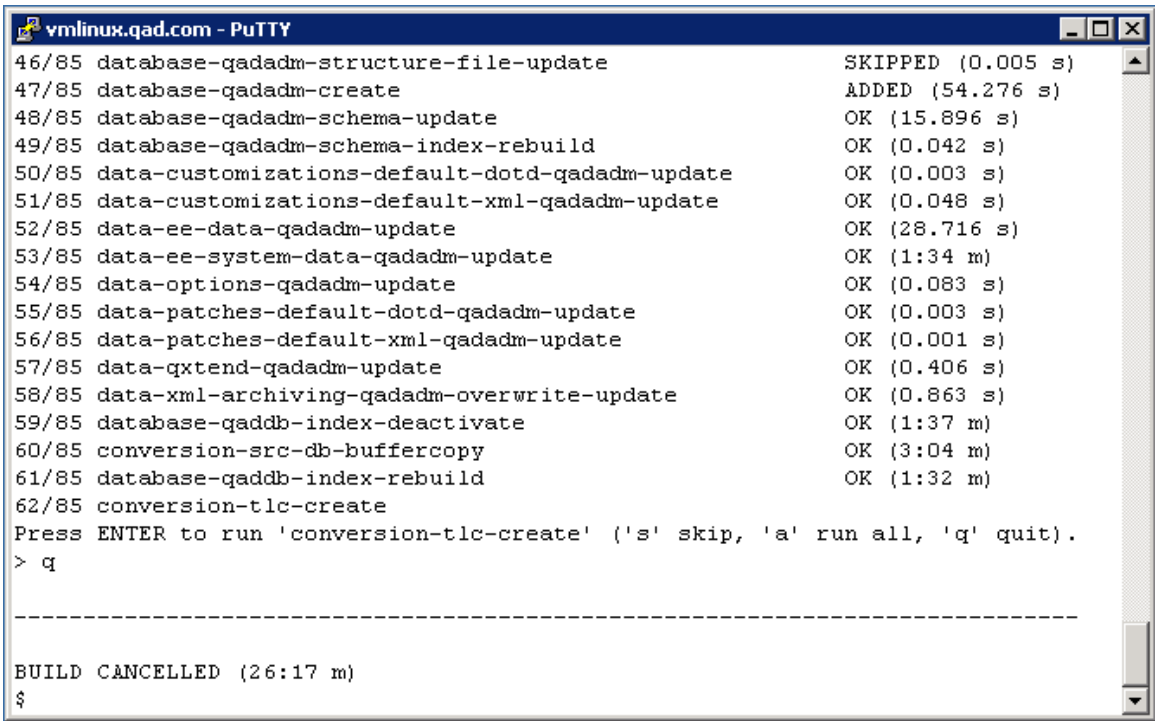
1. Start the conversion with debug-pause option:

```
$ cd /qadapps/qadee
```

```
$ yab -debug-pause -break:conversion-tlc-create conversion-pre-ee-upgrade
```

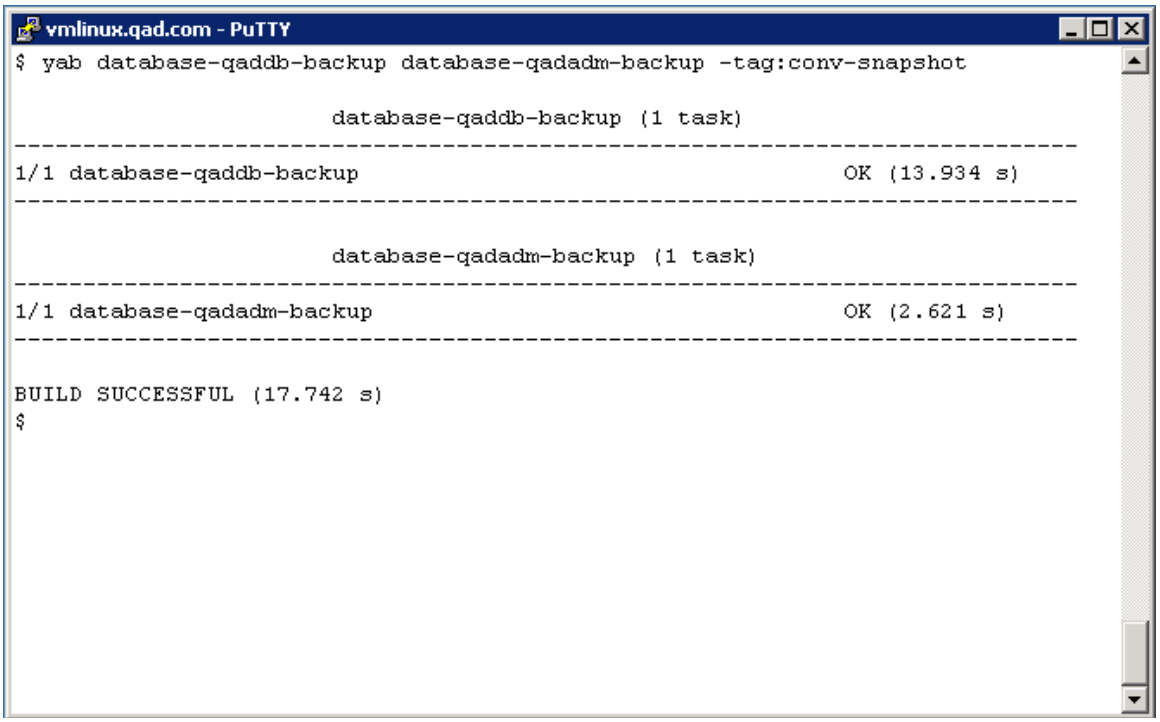


2. When the conversion ‘pauses’ at the `conversion-tlc-create` process, enter ‘q’ to quit.



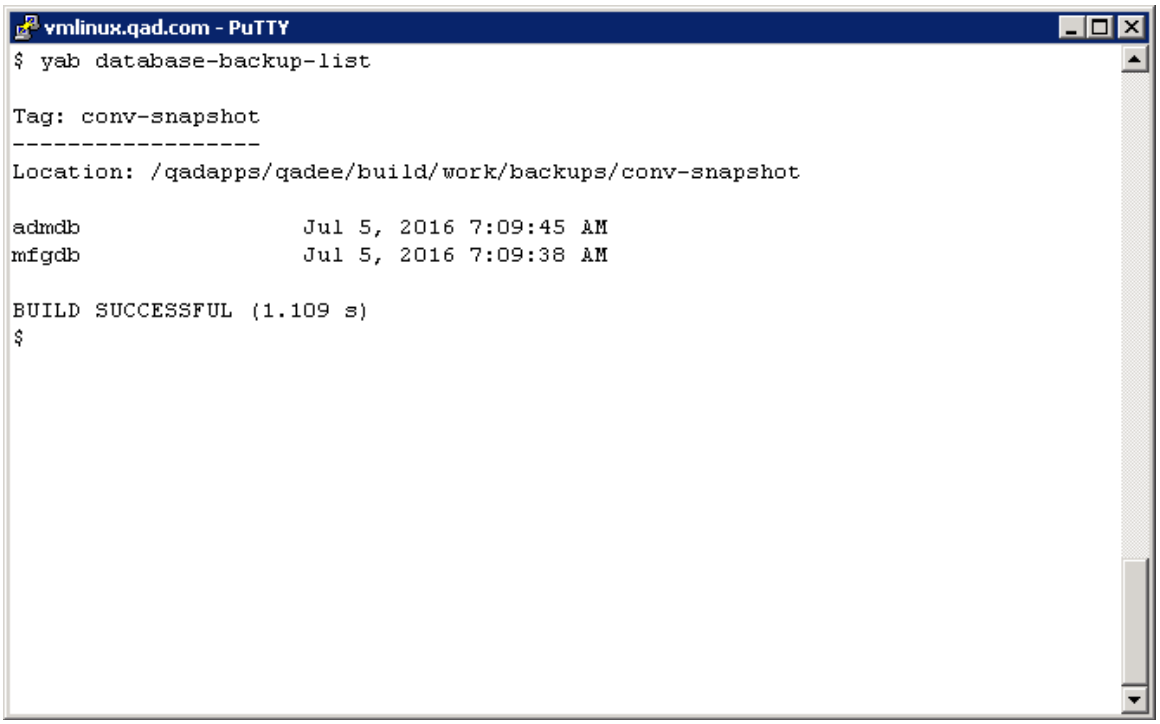
3. Back up database with the following command:

```
$ yab database-qaddb-backup database-qadadm-backup -tag:conv-snapshot
```



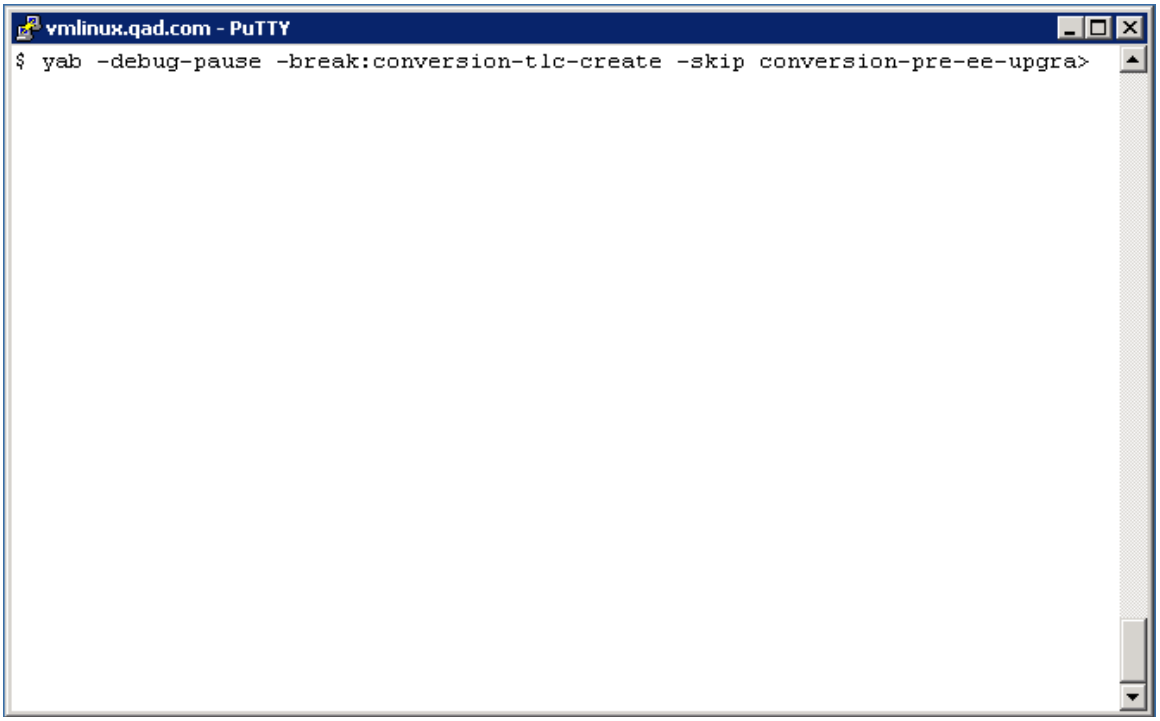
4. Confirm that the backup files are present with the following command:

```
$ yab database-backup-list
```

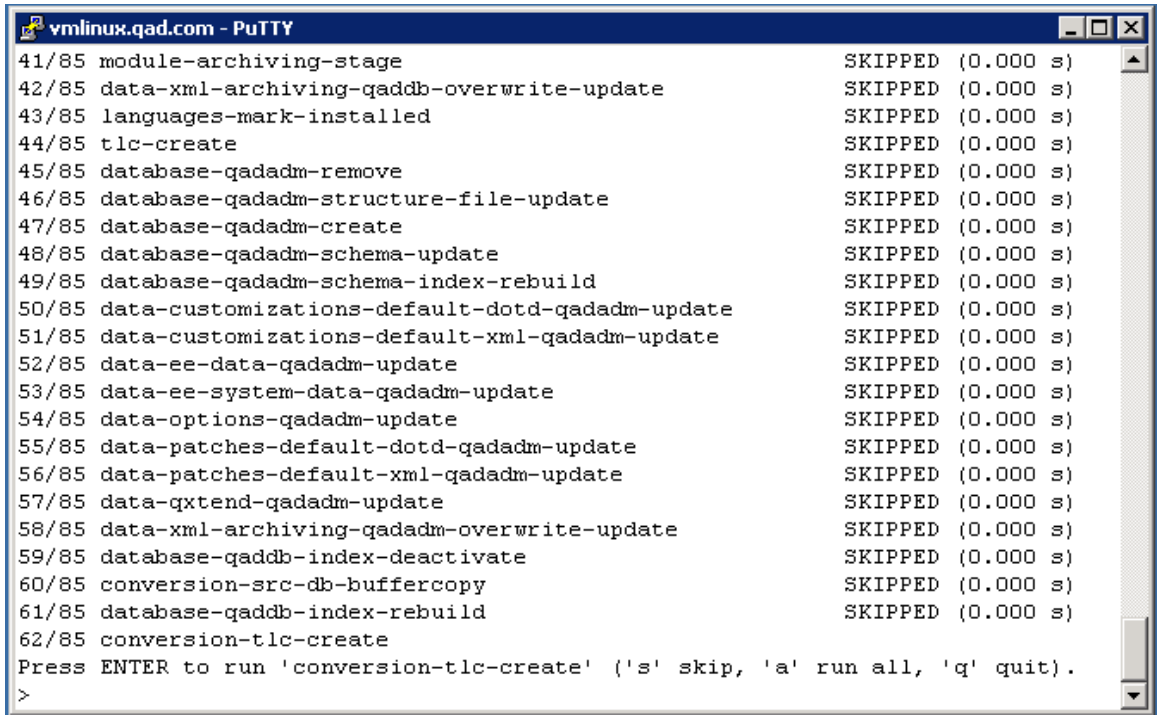


5. Restart the conversion with the following command:

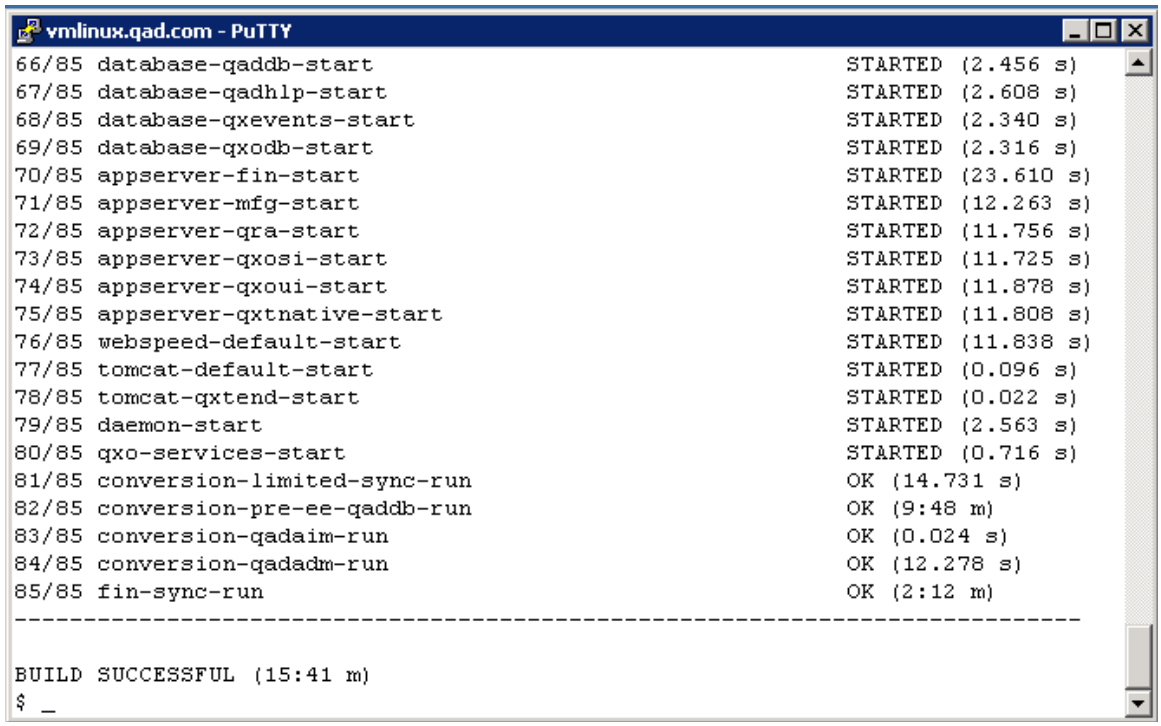
```
$ yab -debug-pause -break:conversion-tlc-create -skip conversion-pre-ee-upgrade –clean
```



6. When prompted, enter ‘a’ to run all.



7. The conversion completes.

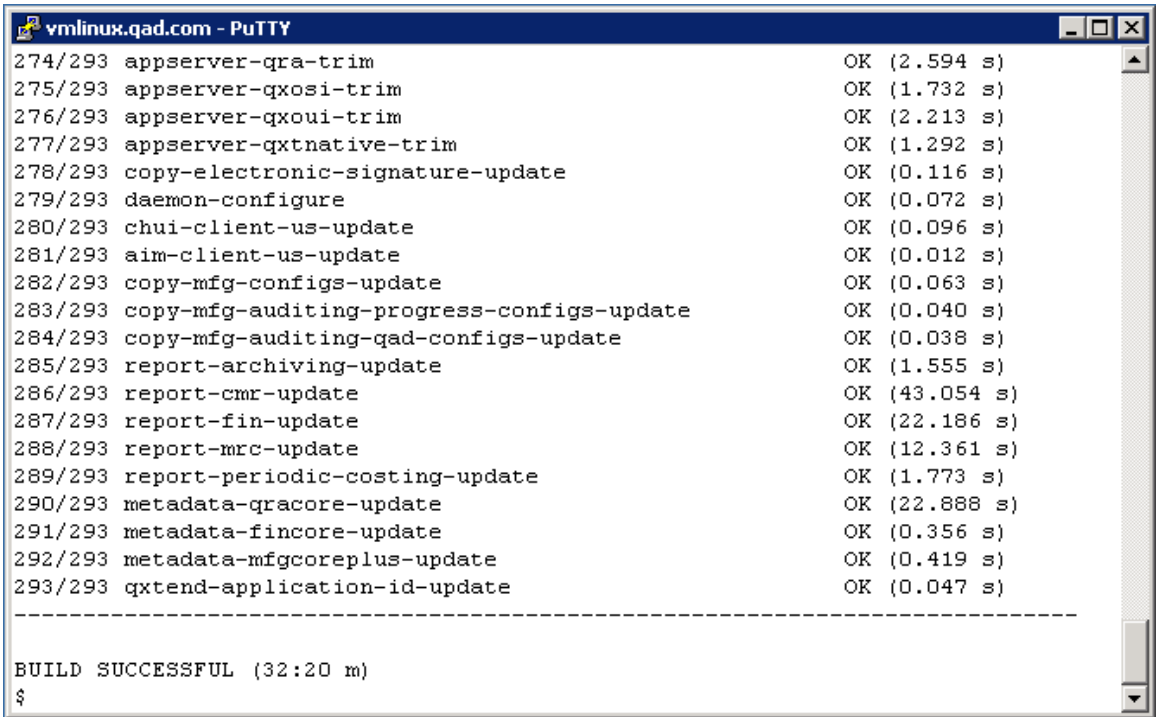


8. Verify that the conversion completed successfully. Review the console output and log files.

Execute YAB Update

Once the upgrade has completed successfully, run a YAB update to ensure that the environment is internally consistent. Then reload the system data. Use the following command:

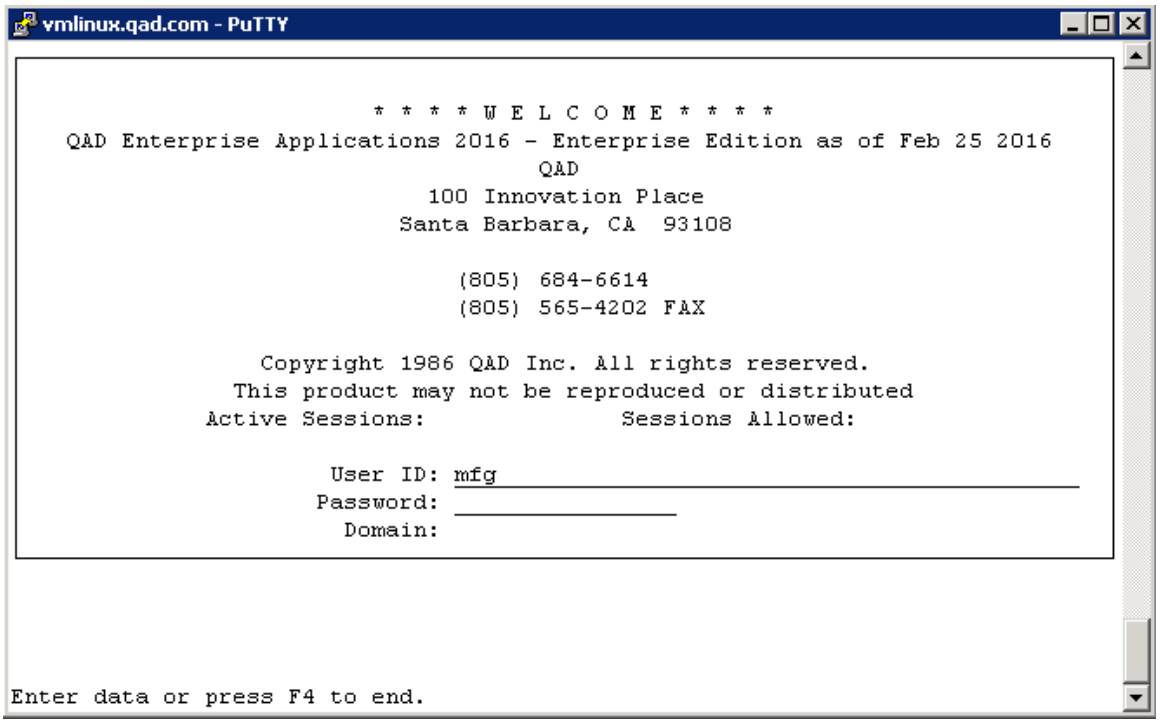
```
$ cd /qadapps/qadee
$ yab –data.ee-system-data-qaddb.regenerateoids:true – clean update
```



Enter License Codes

Log in to QAD2016EE character client:

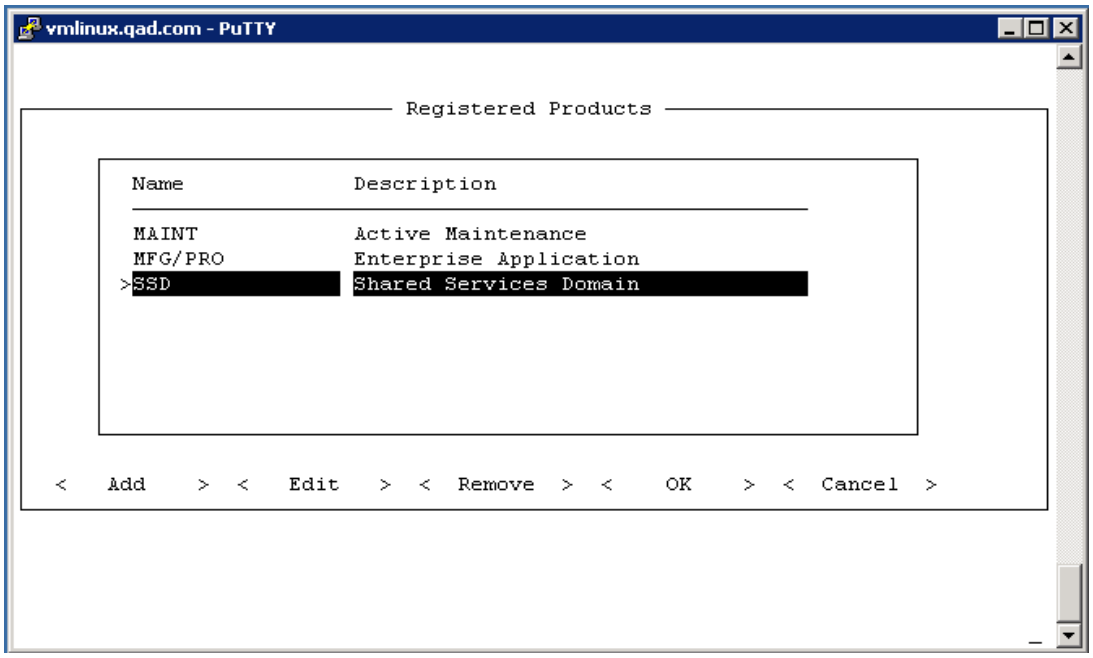
```
$ cd /qadapps/qadee/scripts
$ ./client-us.sh
```



Enter the license keys into the system. For this exercise, only the following license codes are required:

License Code Code (expires 2017-12-31)	Count	Type	Product Description
1X2X5 1JNK& 1X5VJ 1Y&6& 1X5VK QWT&2	400	NU	MFG/PRO Foundation
1X153 1JPBP 1X63Q 1ZCWP 1X63M QWS84	400	NU	Active Maintenance
1X0C7 1JQ4K 1X7FL 1WDPK 1X7F& QWR60	400	NU	S. Services Domain

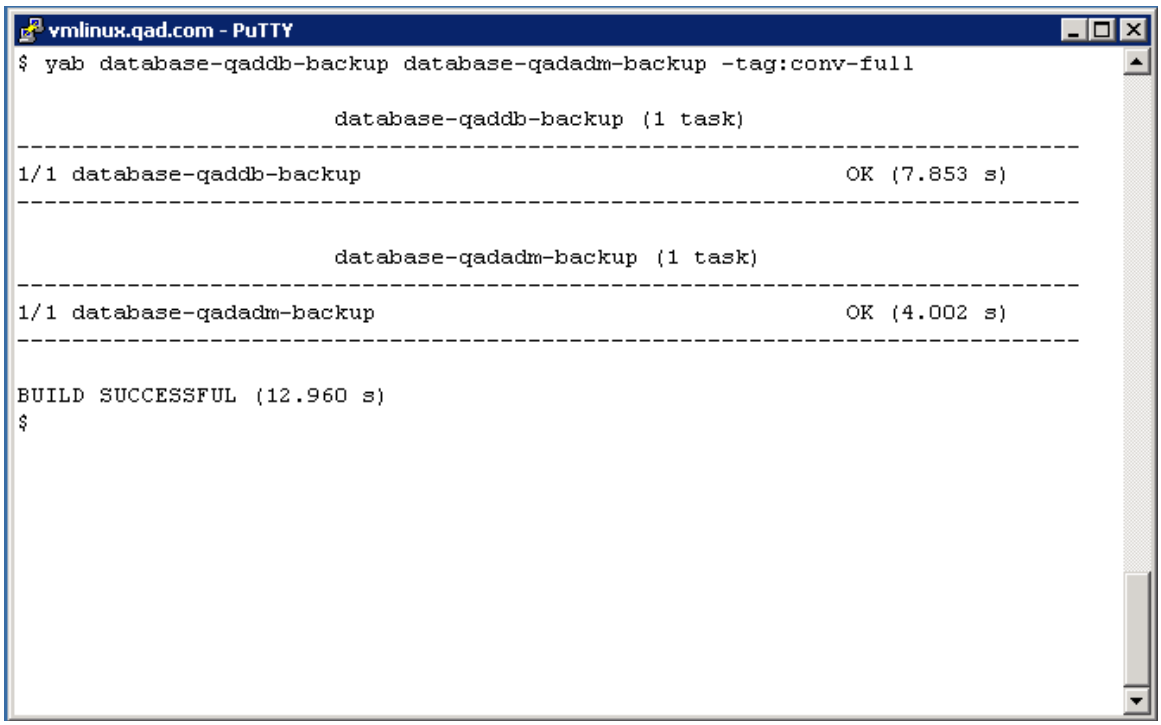
Note: For the training exercise, when adding the above license codes please be sure to select ‘All’ users



Back Up the QAD EE Databases

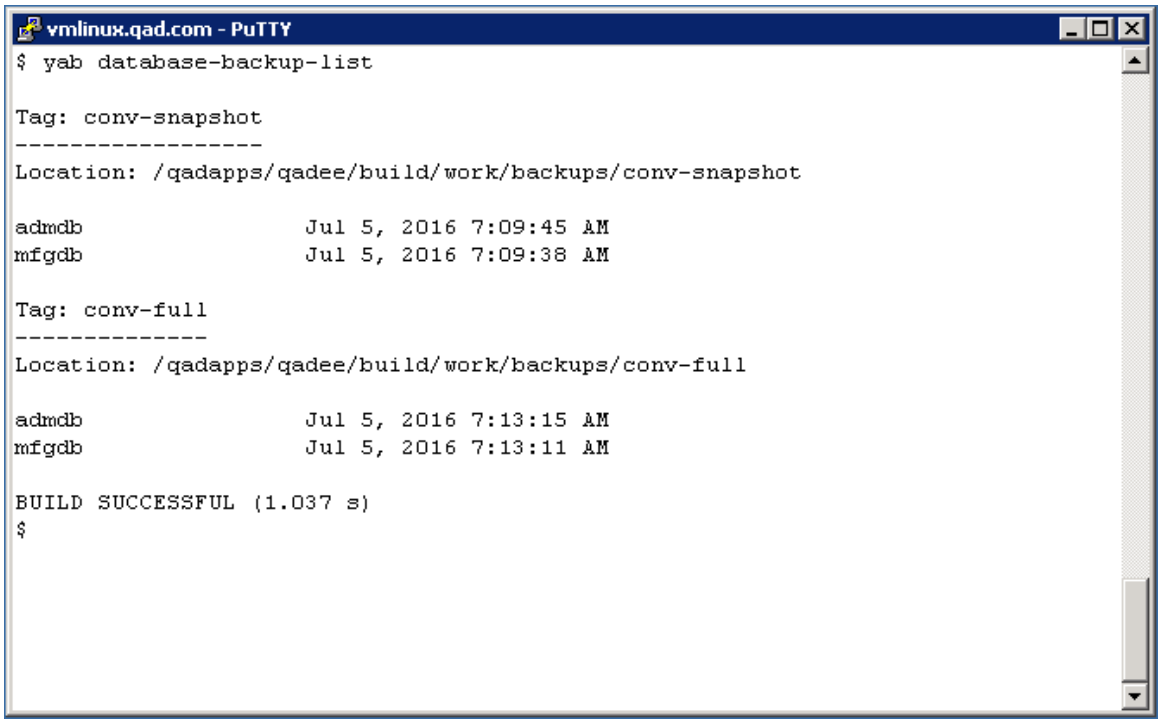
1. Back up the QAD EE databases with the following command:

```
$ cd /qadapps/qadeee
$ yab database-qaddb-backup database-qadadm-backup -tag:conv-full
```



2. Confirm that the backup files are present with the following command:

```
$ yab database-backup-list
```



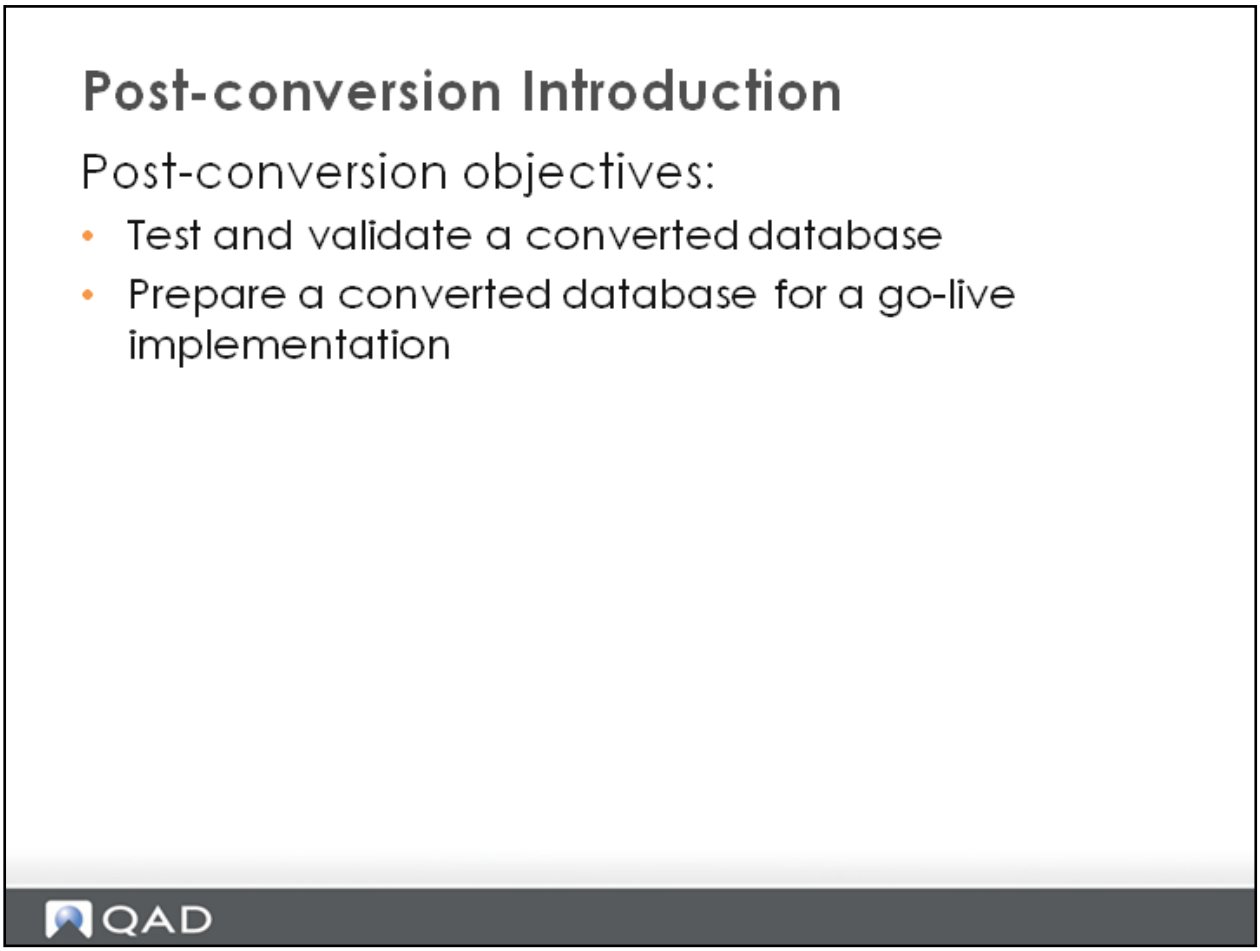
CHAPTER 4

Post-Conversion

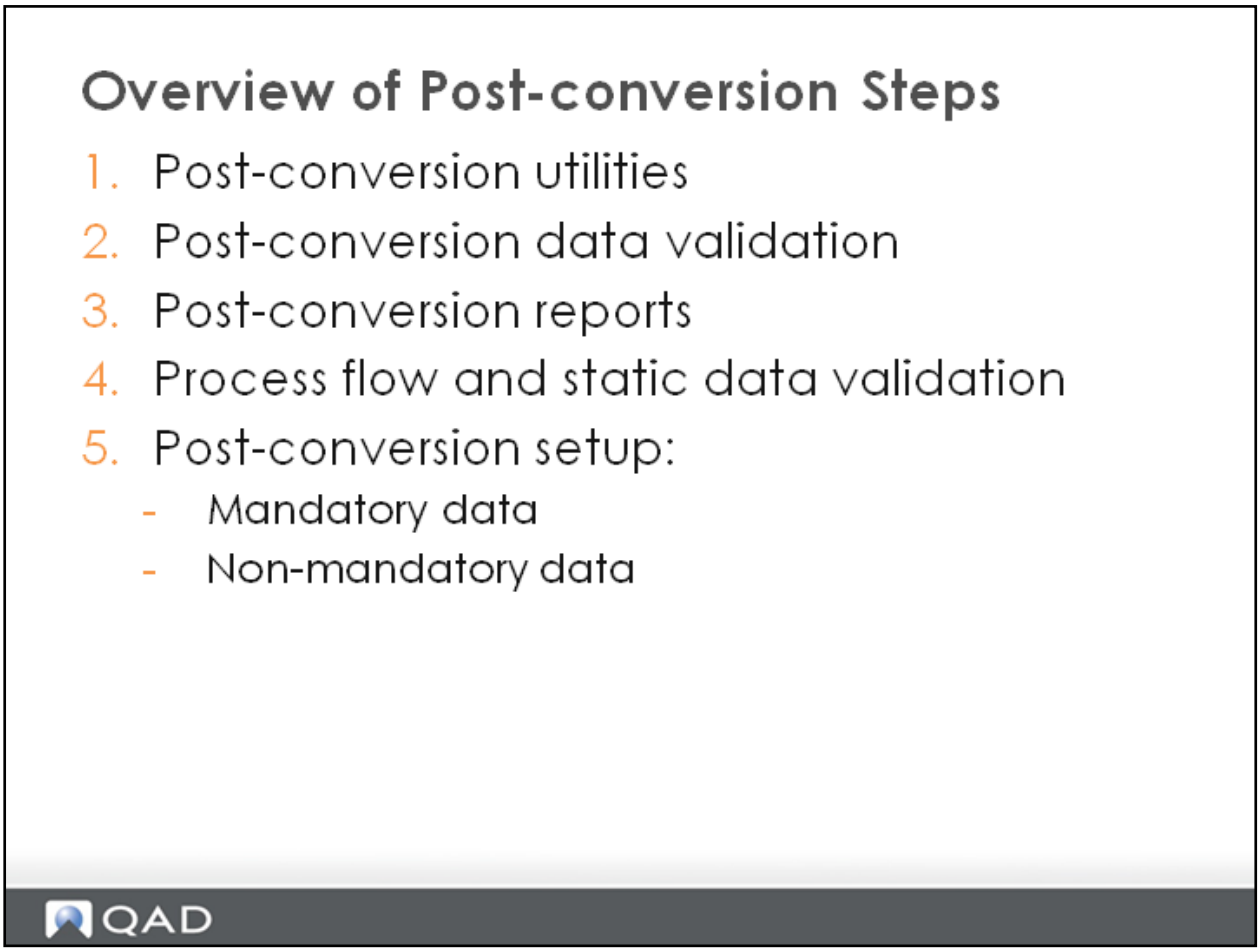
Post-conversion

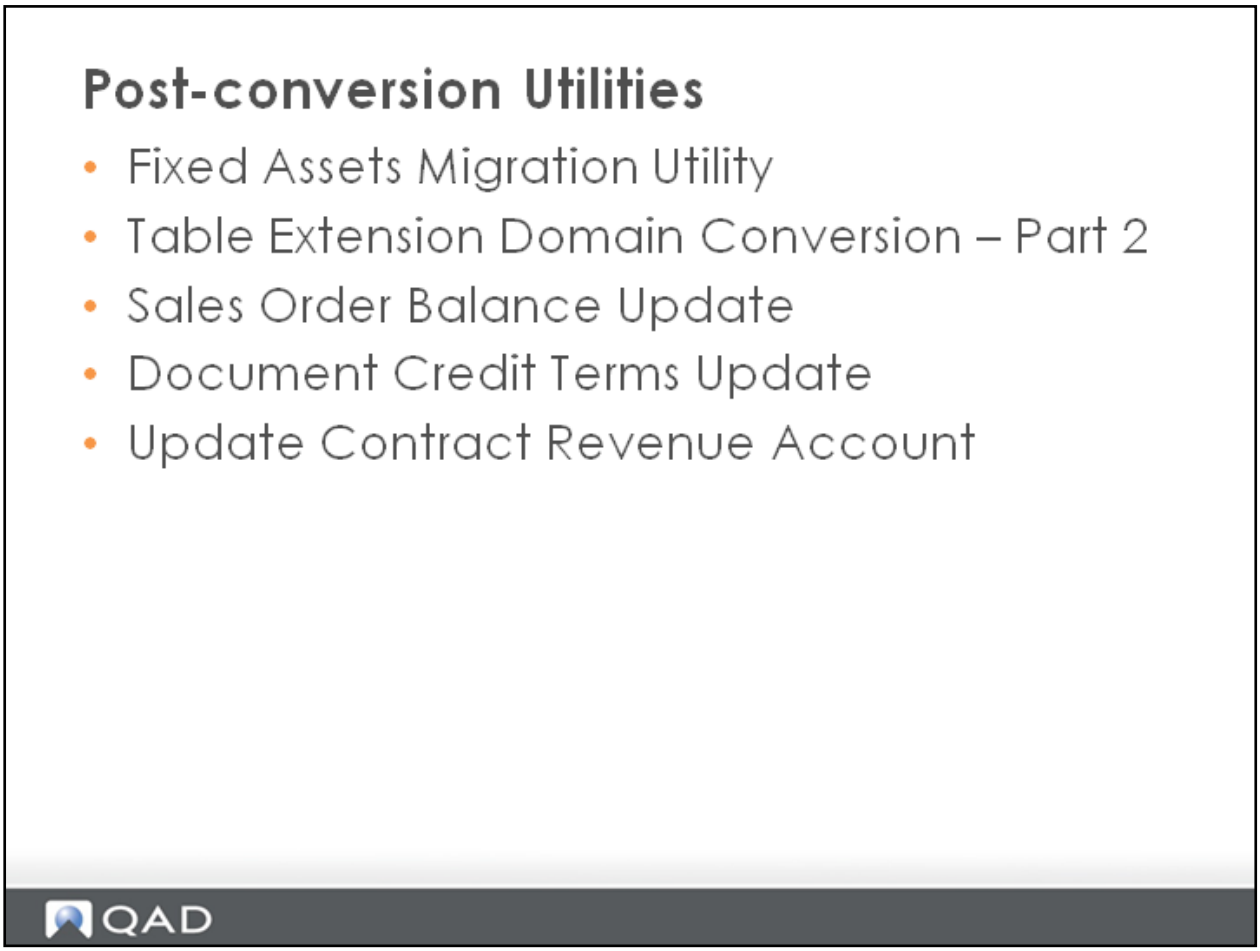


Post-conversion Introduction

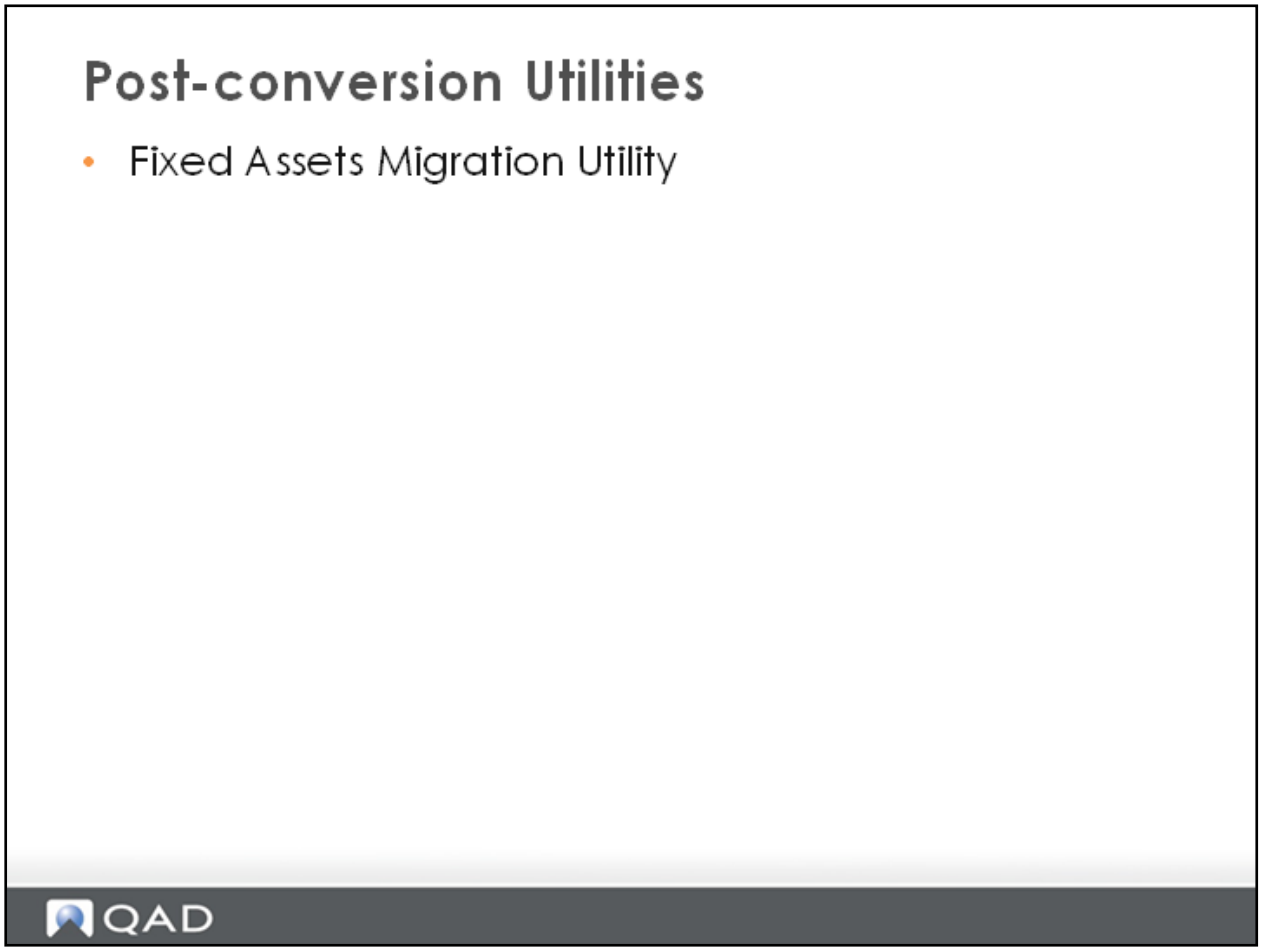


Overview of Post-conversion Steps

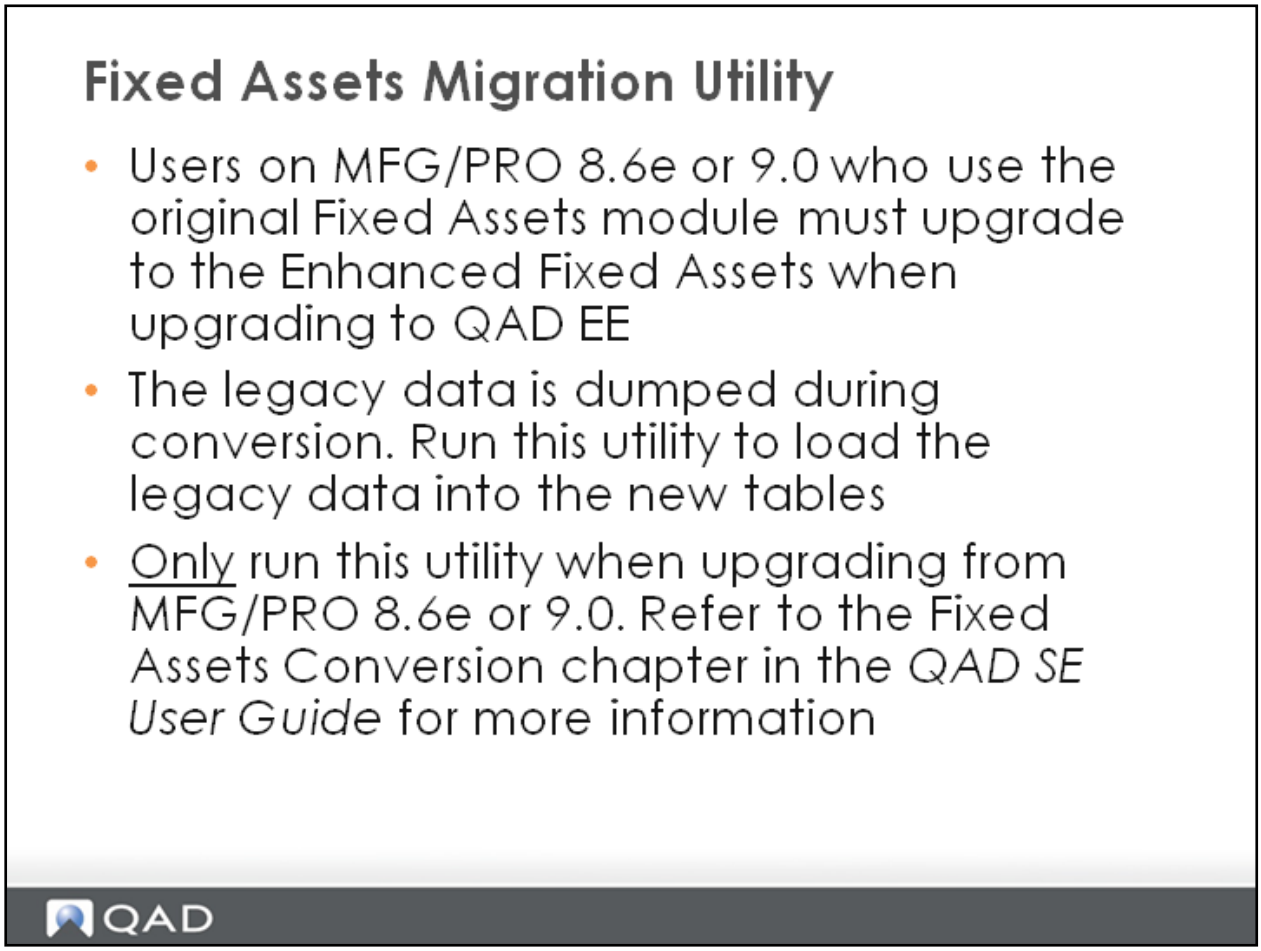



Post-conversion Utilities
Fixed Assets Migration Utility
Table Extension Domain Conversion – Part 2
Sales Order Balance Update
Document Credit Terms Update
Update Contract Revenue Account
QAD

Post-conversion Utilities



Fixed Assets Migration Utility



Post-conversion Utilities

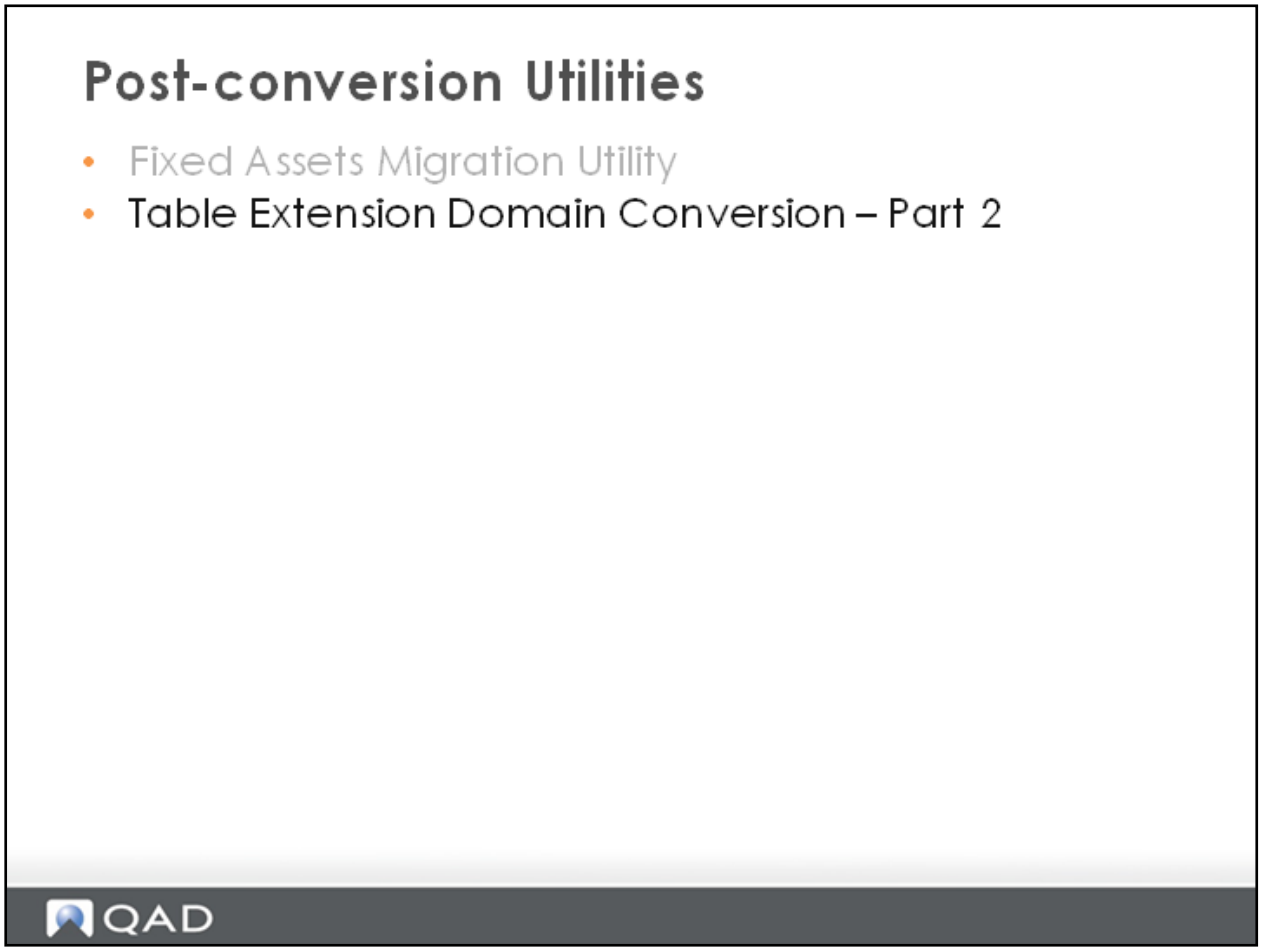
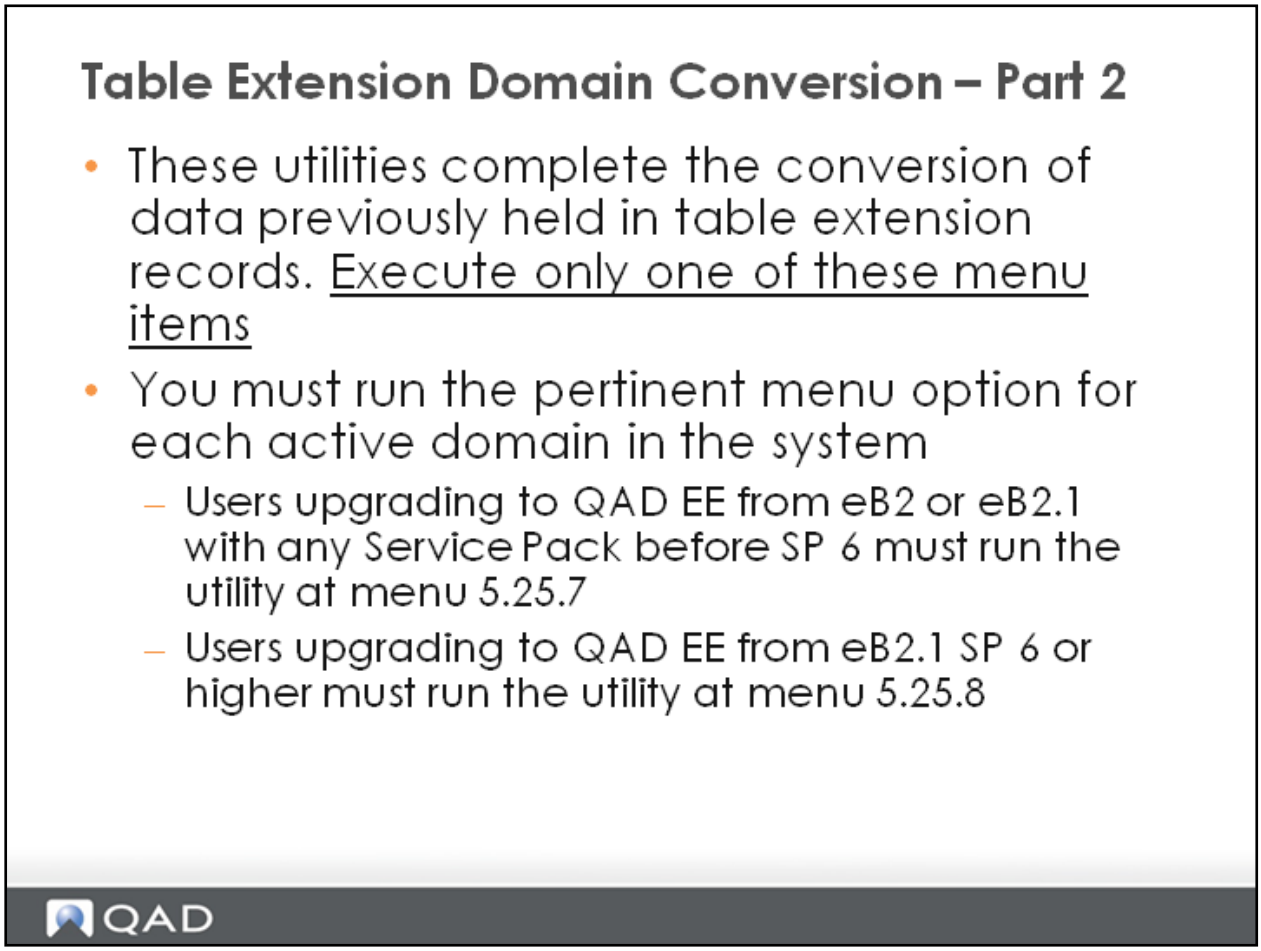
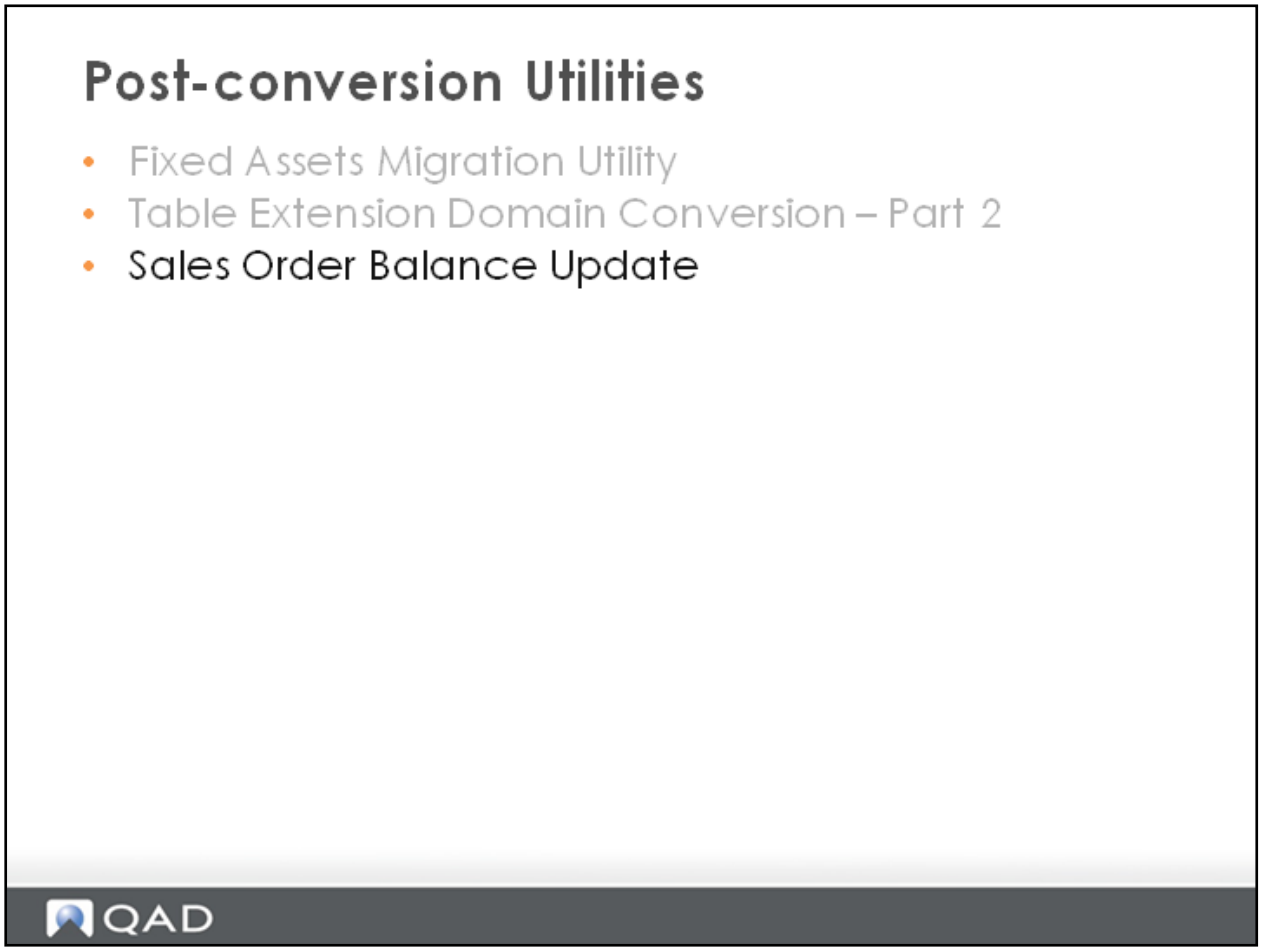


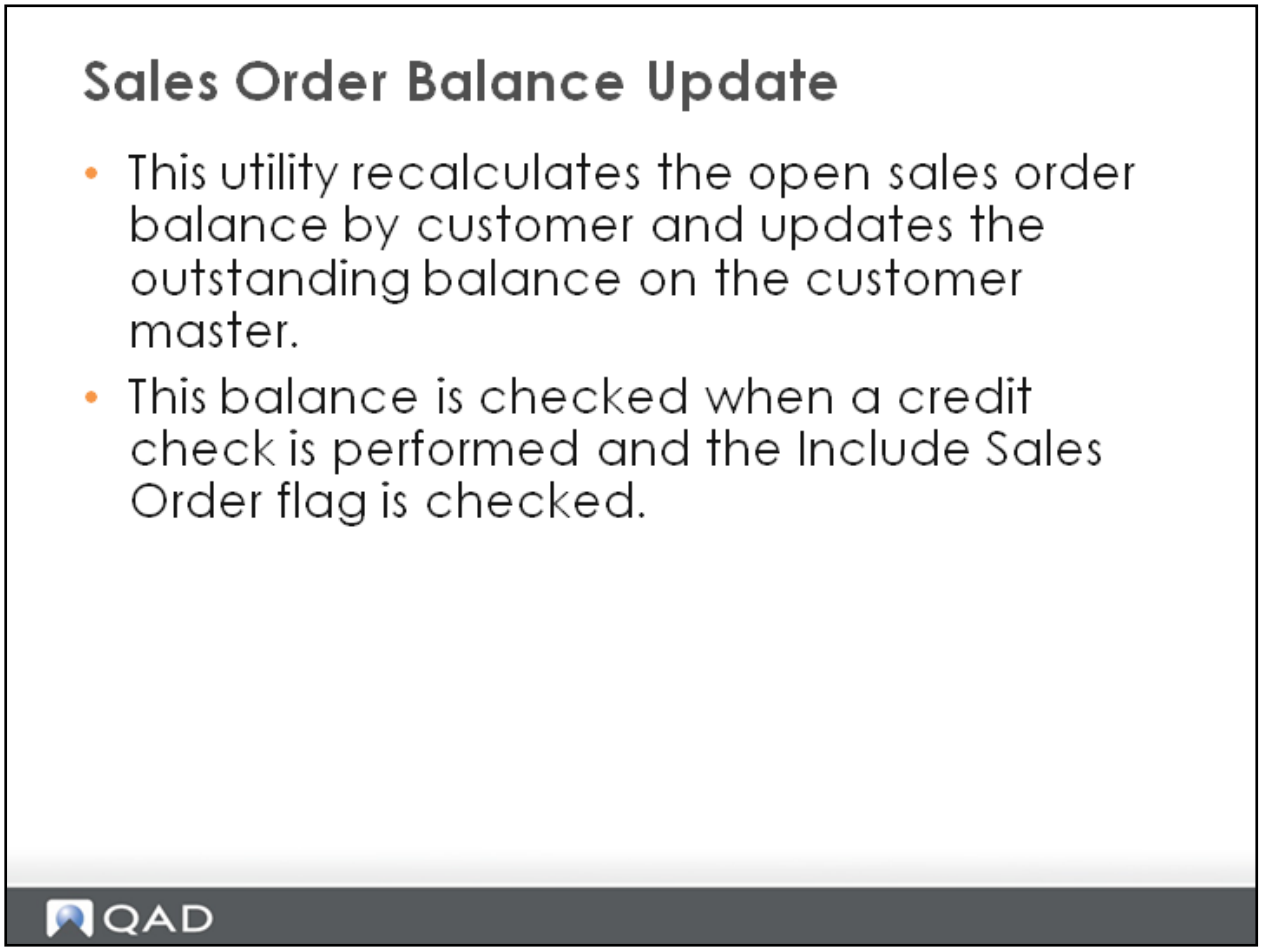
Table Extension Domain Conversion – Part 2



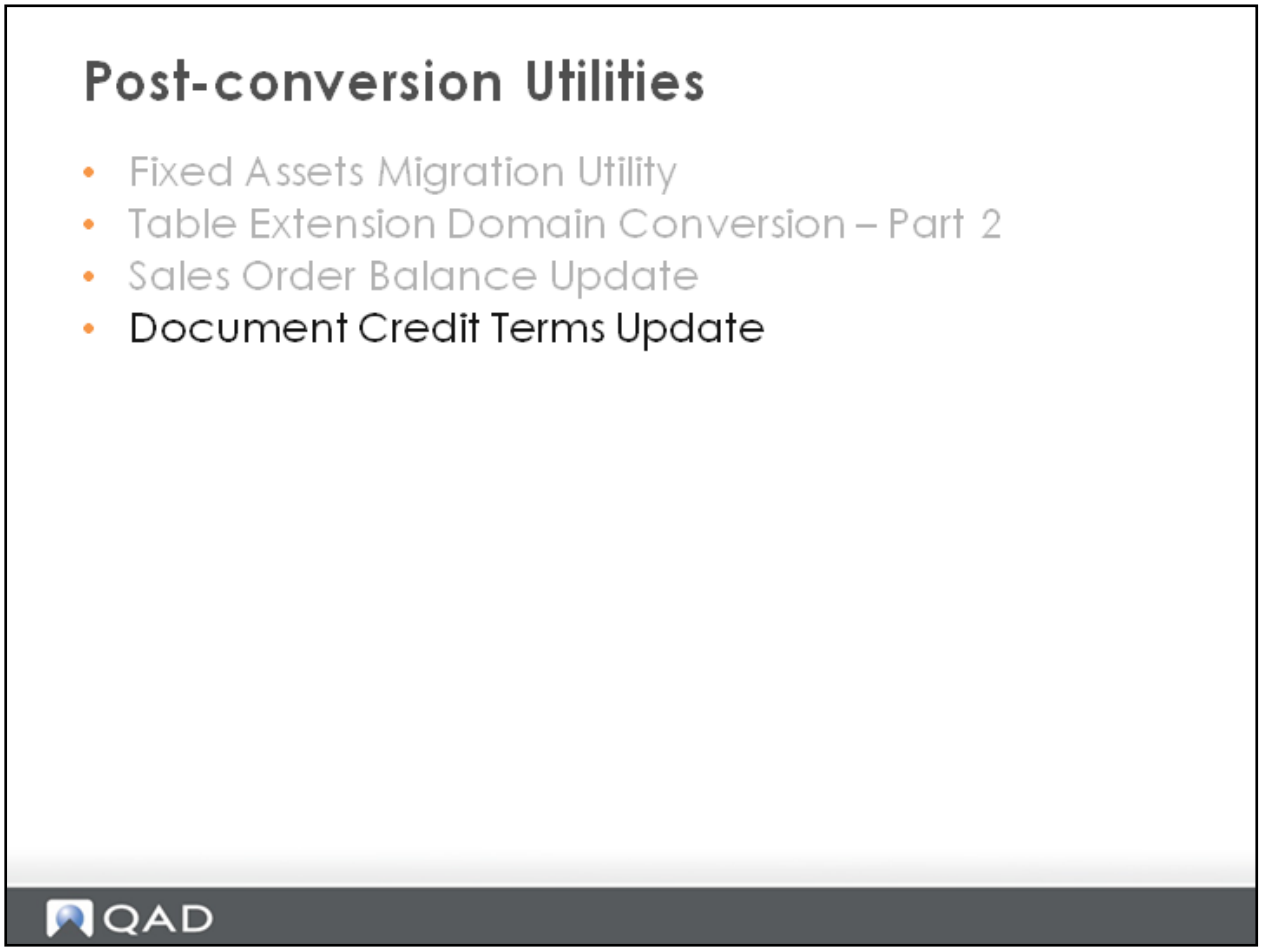
Post-conversion Utilities



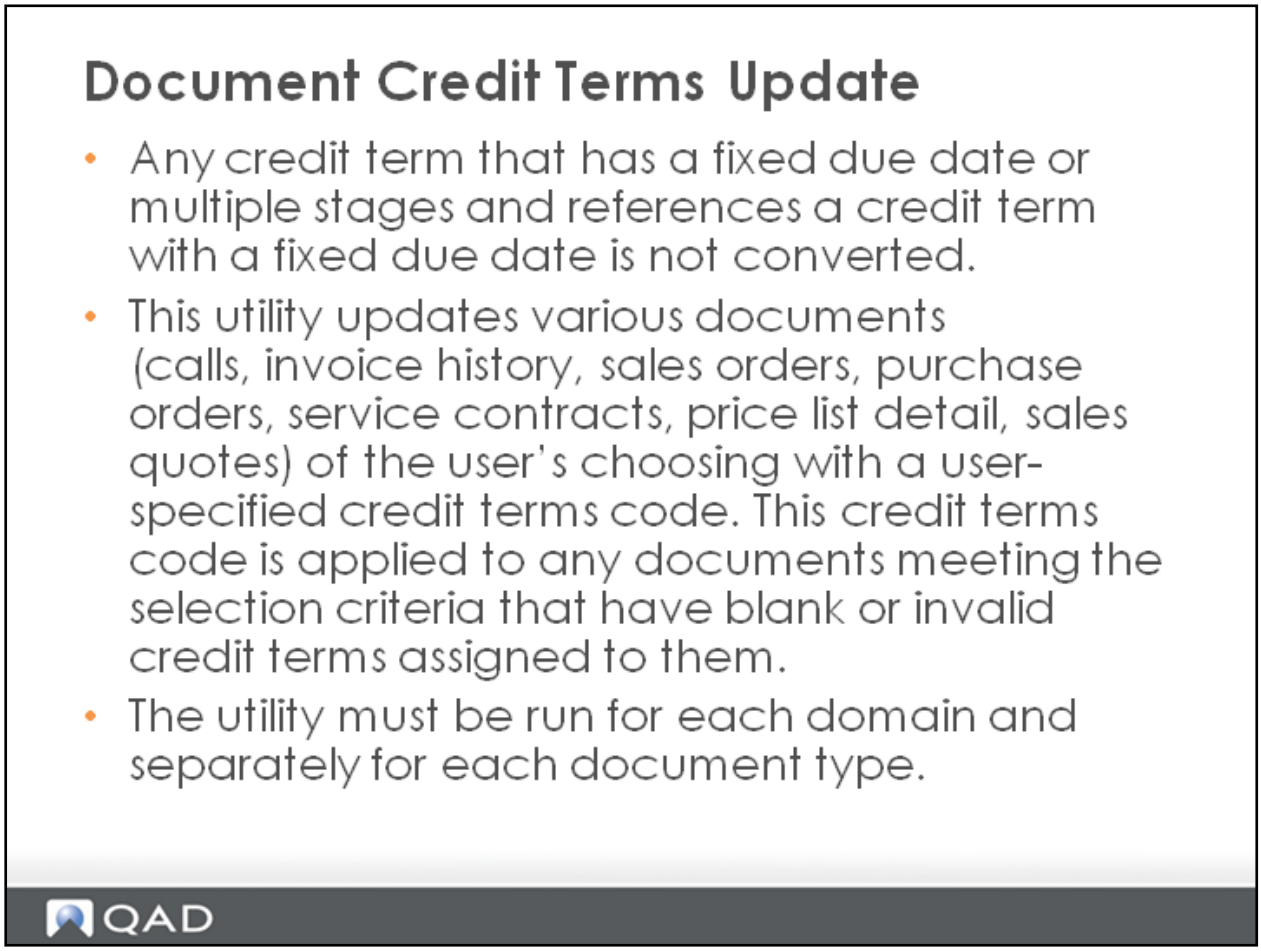
Sales Order Balance Update



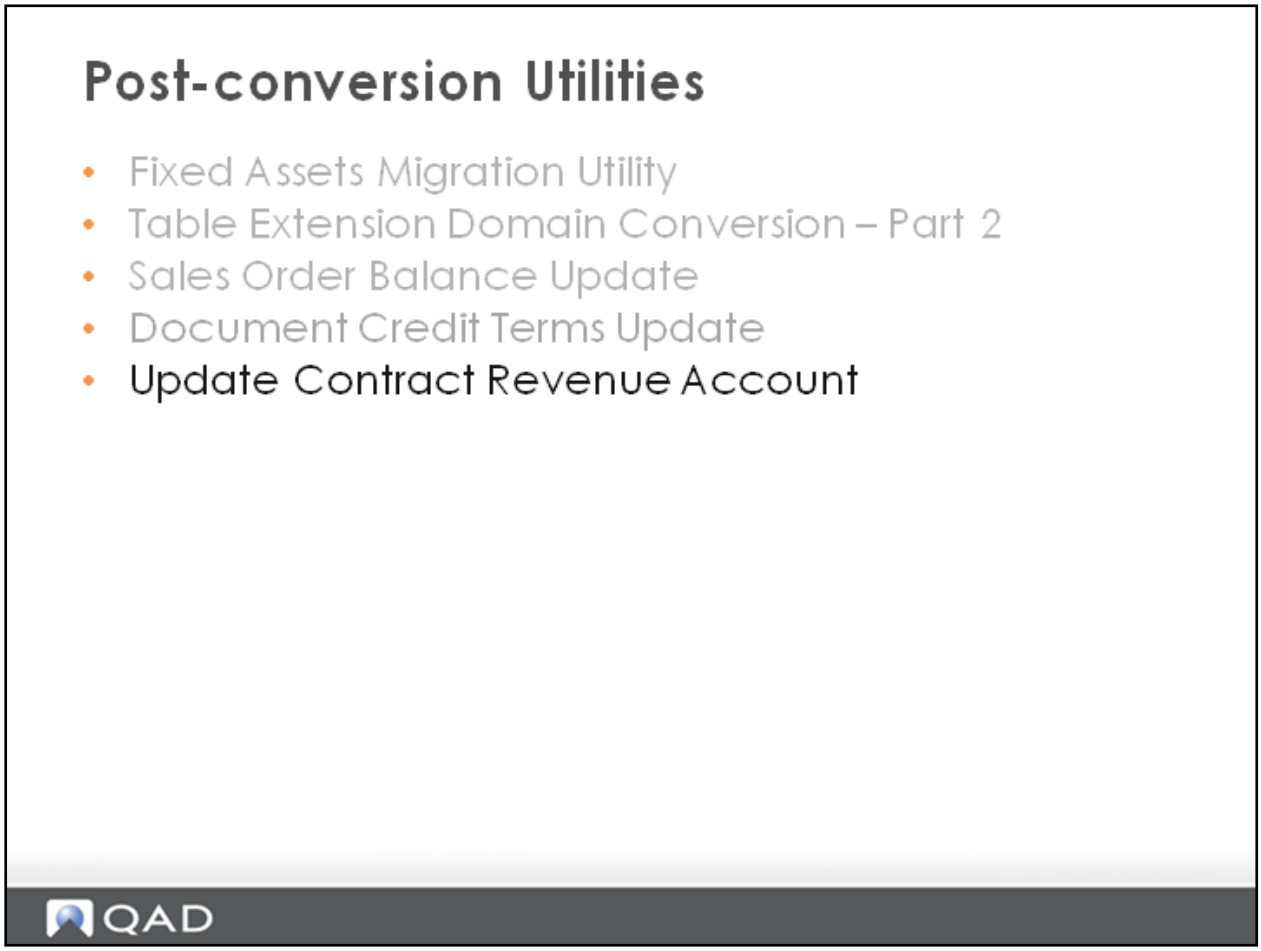
Post-conversion Utilities



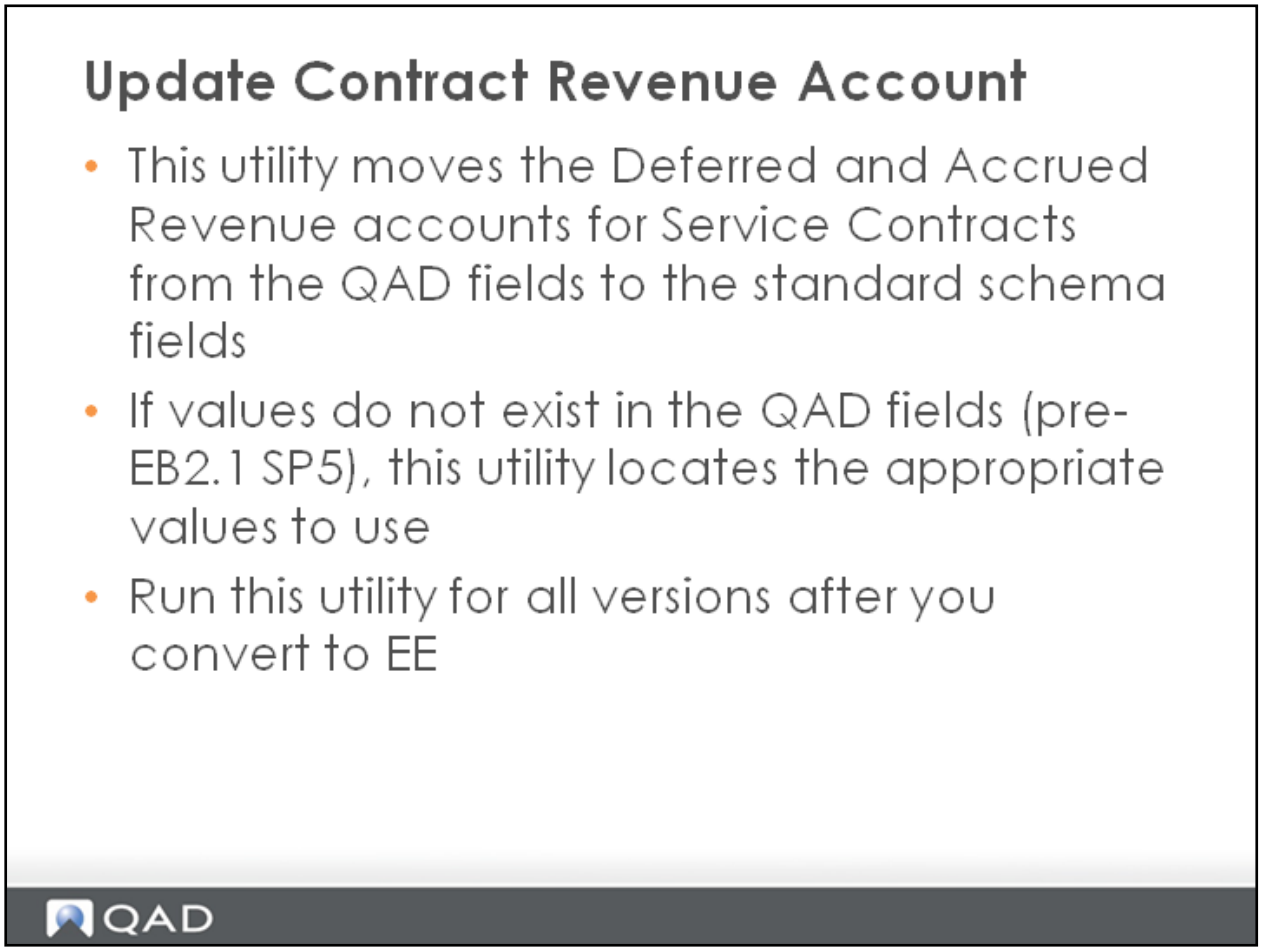
Document Credit Terms Update



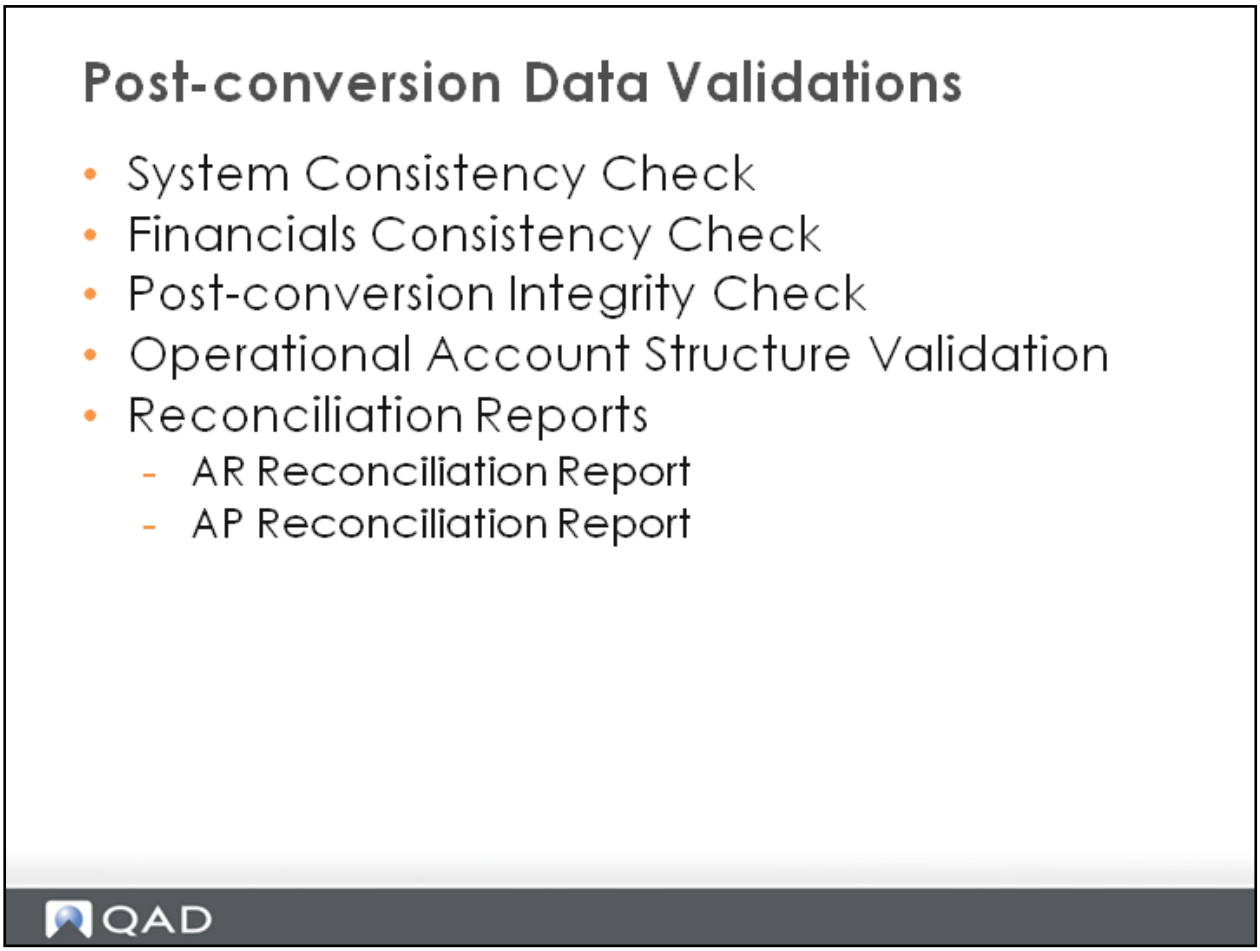
Post-conversion Utilities



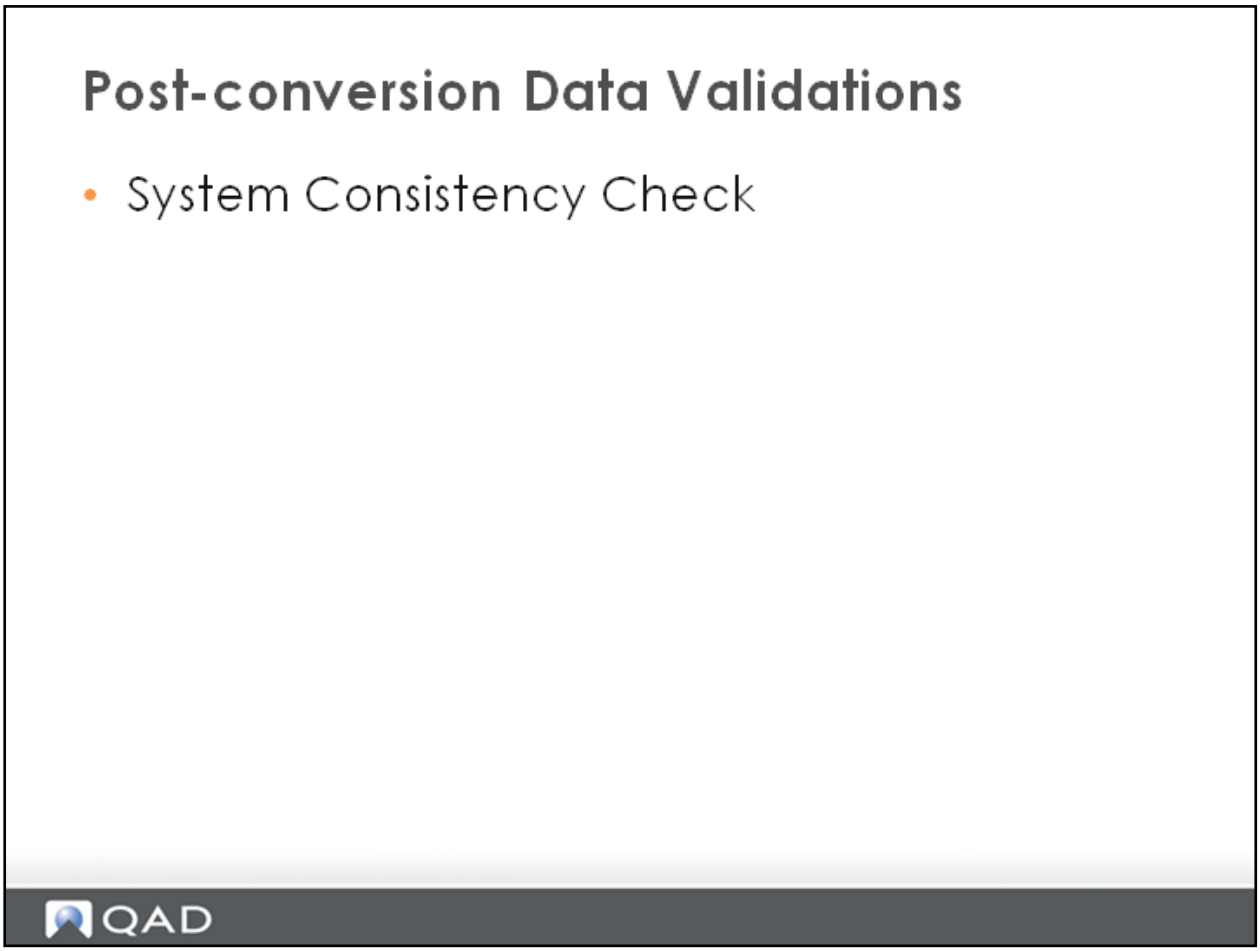
Update Contract Revenue Account



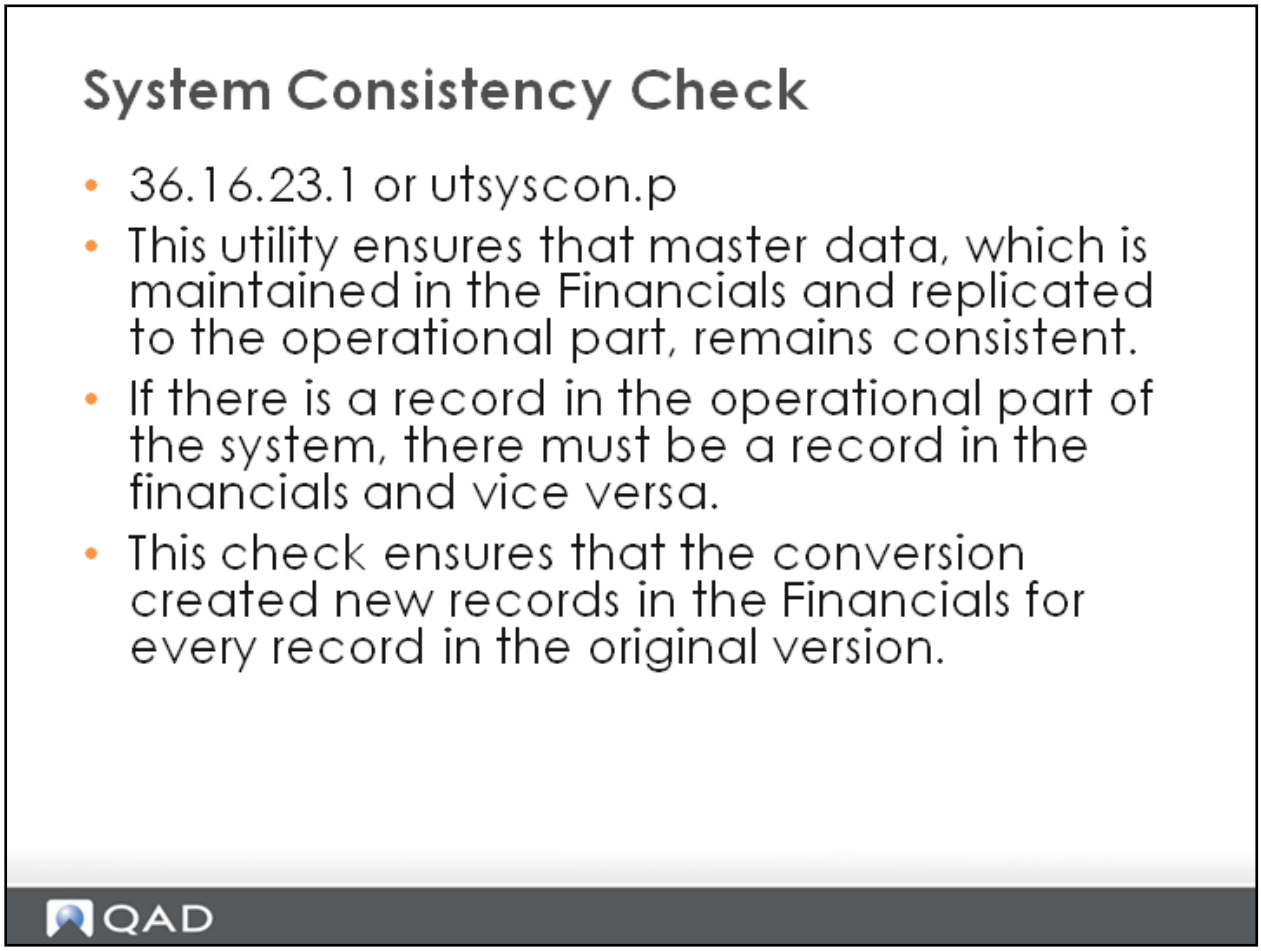
Post-conversion Data Validations



Post-conversion Data Validations



System Consistency Check



System Consistency Check

System Consistency Check

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



QAD

System Consistency Check

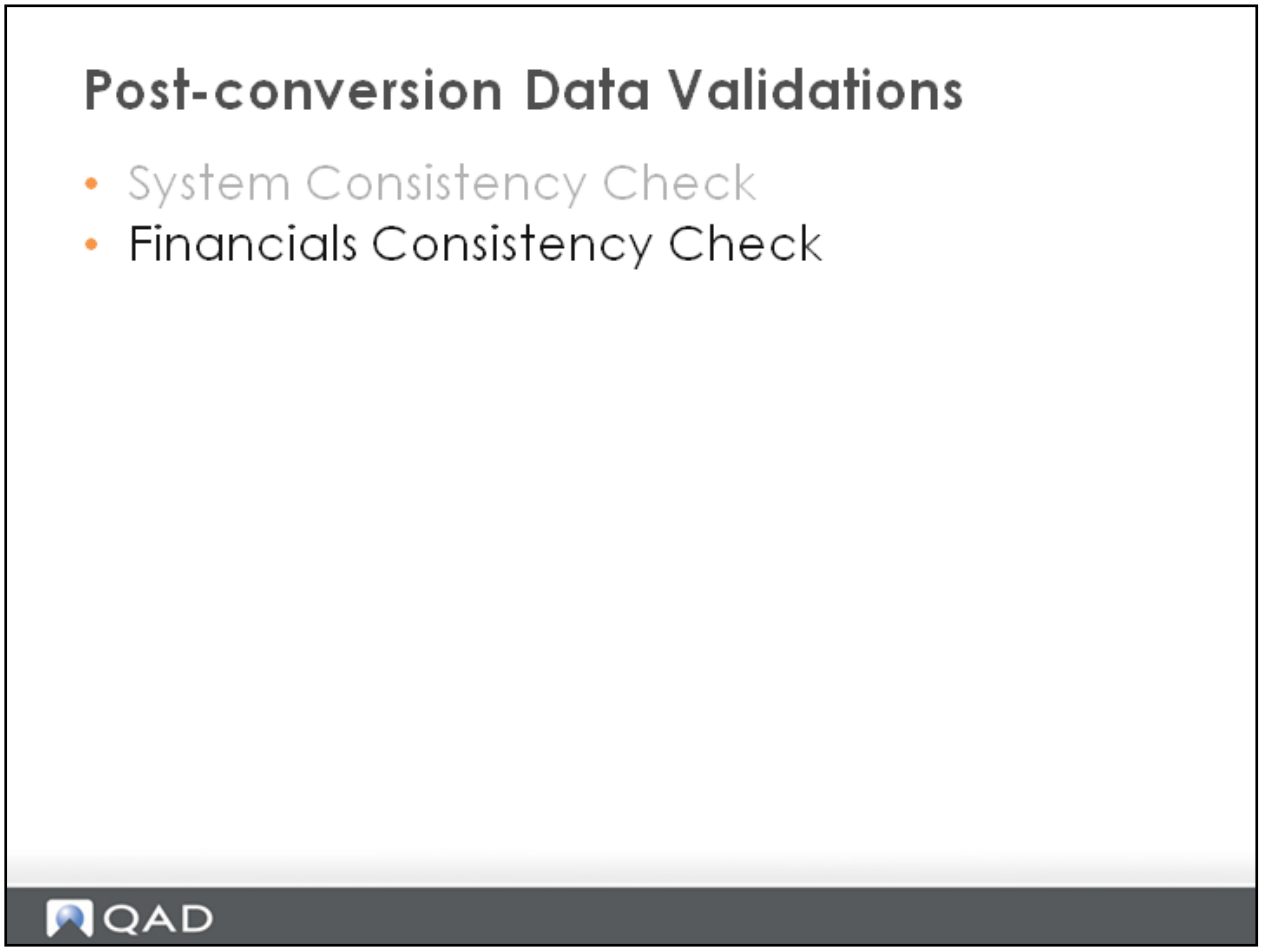
System Consistency Check

The resulting report contains a summary and details of any inconsistencies

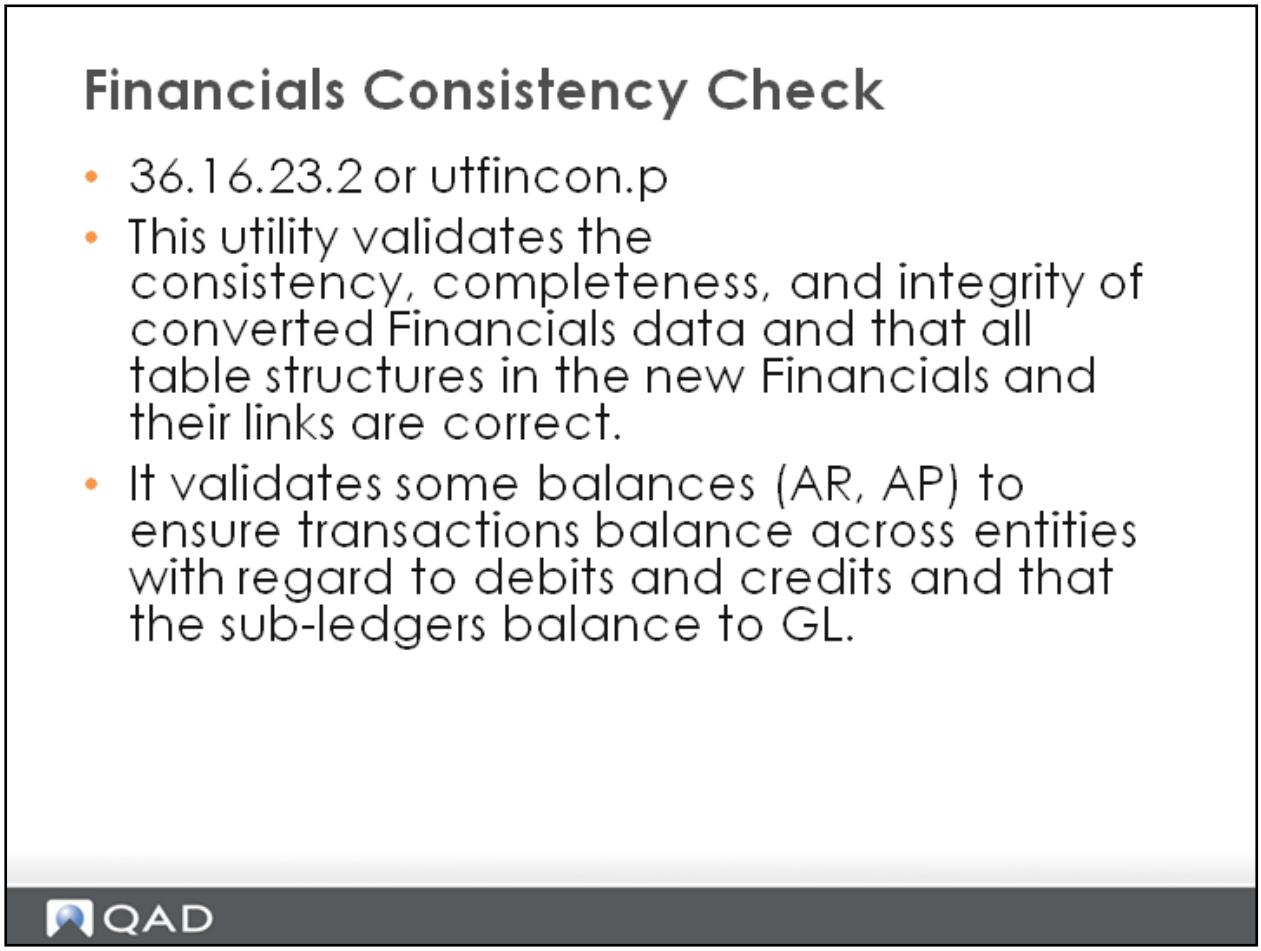
```
2009-05-12>02:49:21: REPORT STATISTICS
                                White Missing * MFGPRO Missing * Inconsistent
        ok 1-Language Data                  0 *              0 *            0
        ok 2-Domain Data                    0 *              0 *            0
        ok 2-Entity Data                    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 <<<<
```

Post-conversion Data Validations



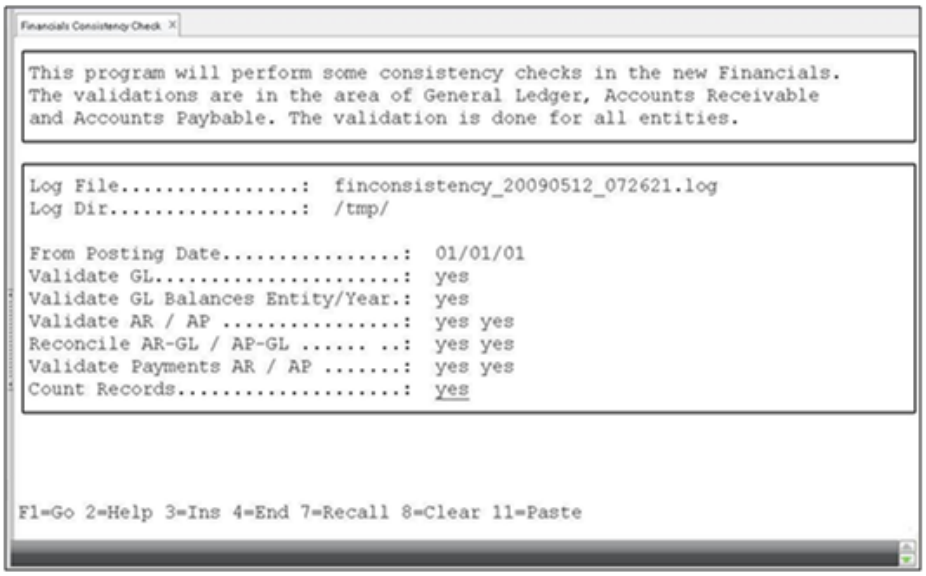
Financials Consistency Check



Financials Consistency Check

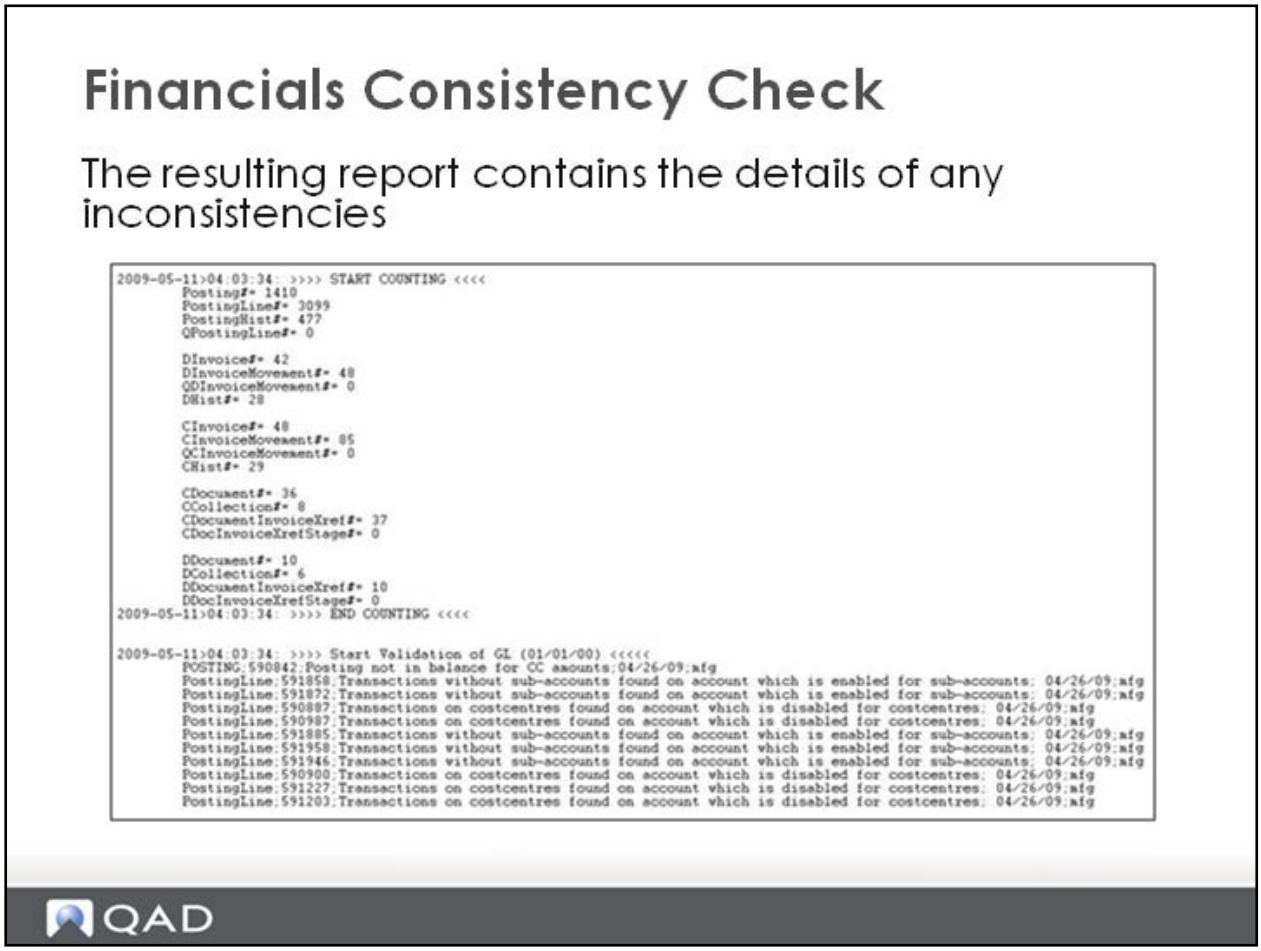
Financials Consistency Check

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

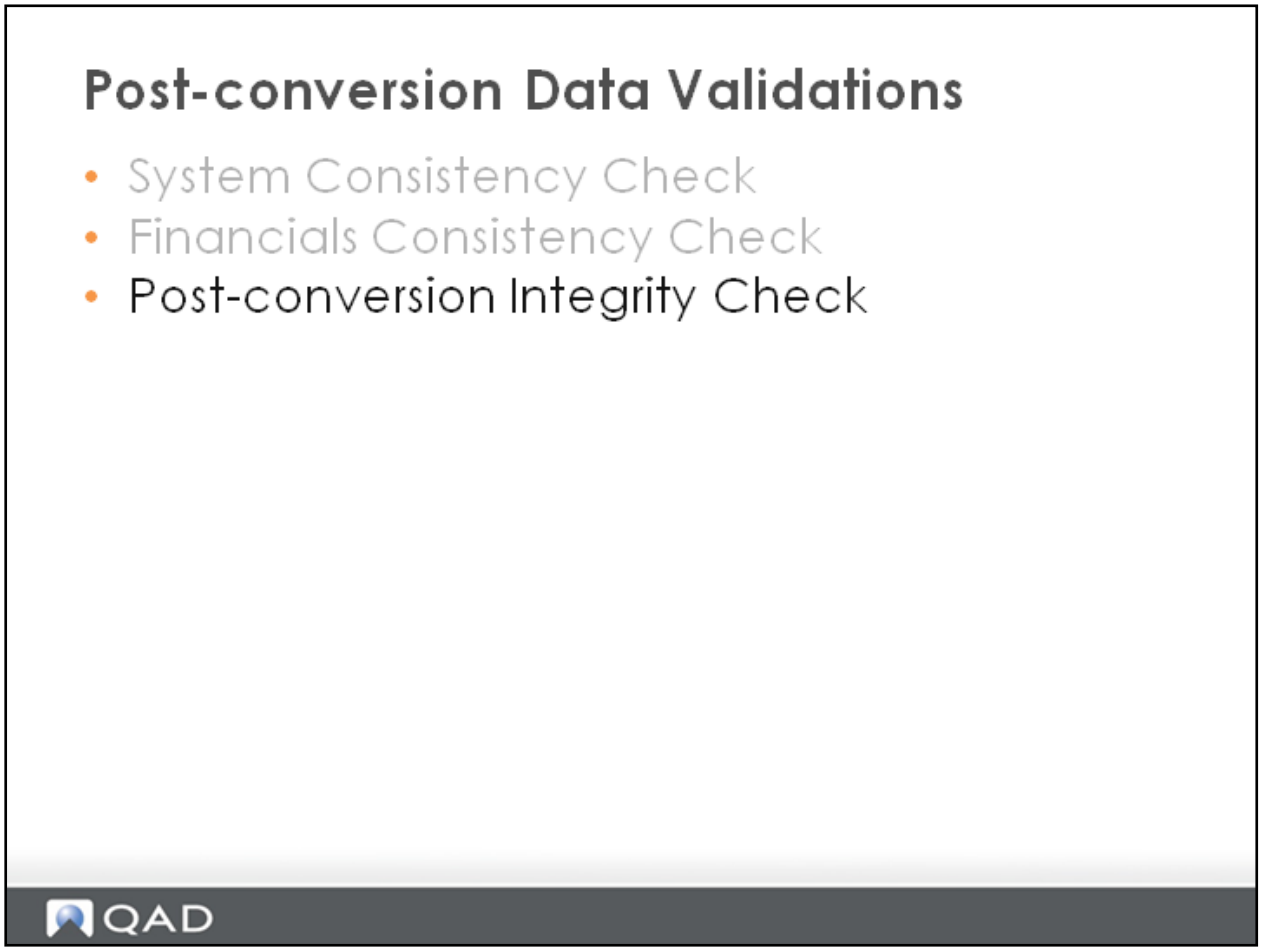


QAD

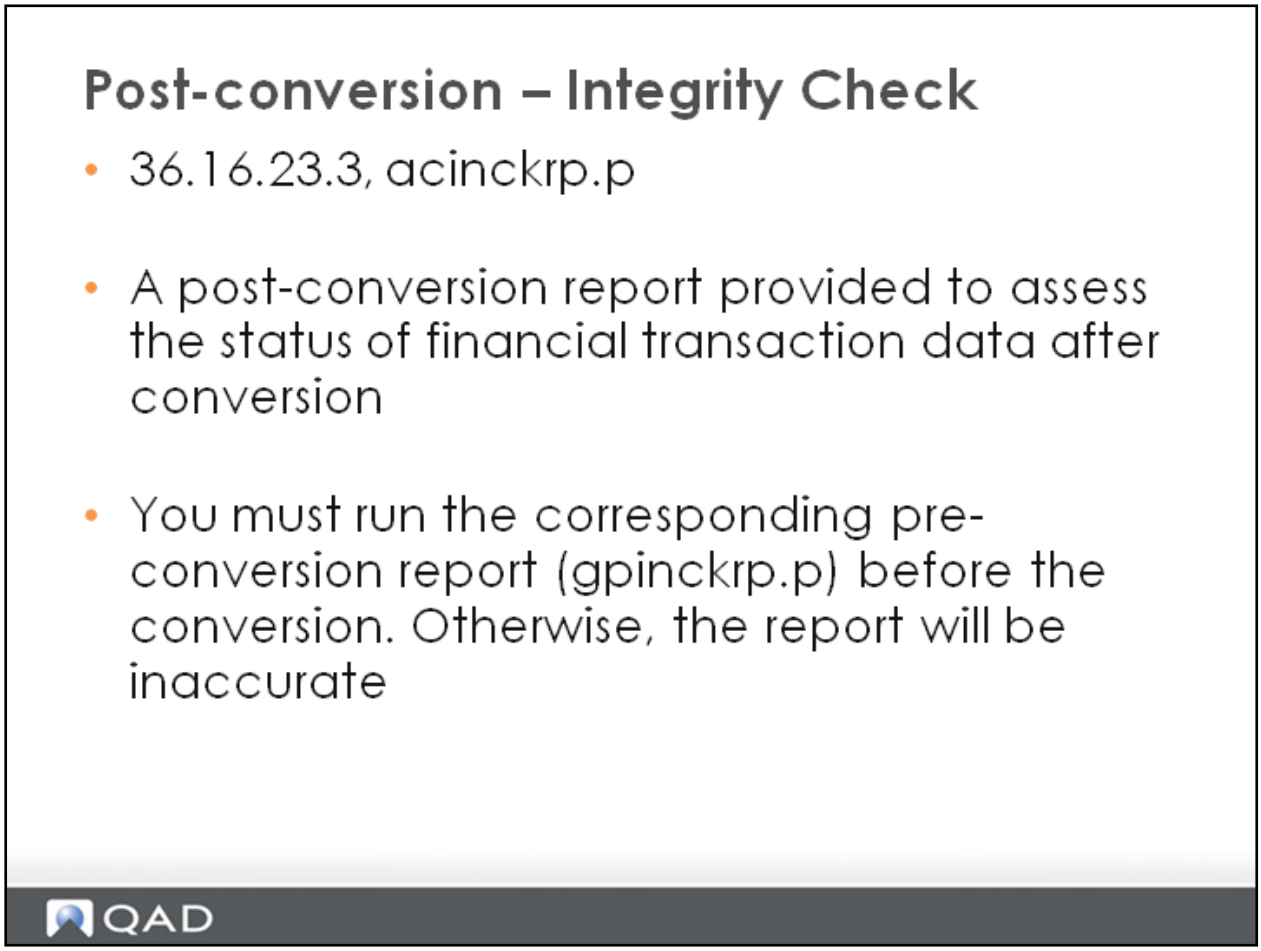
Financials Consistency Check



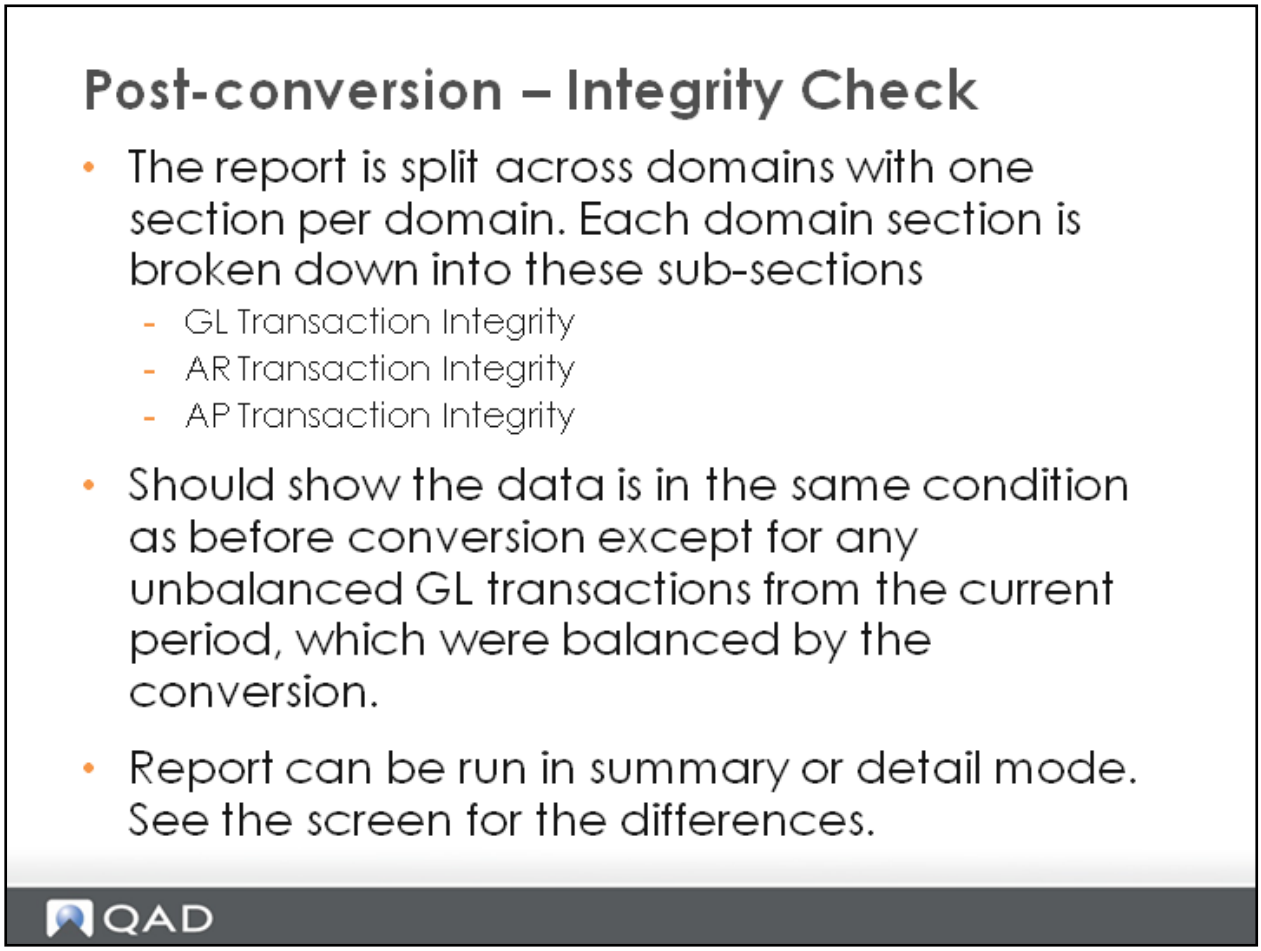
Post-conversion Data Validations



Post-conversion – Integrity Check



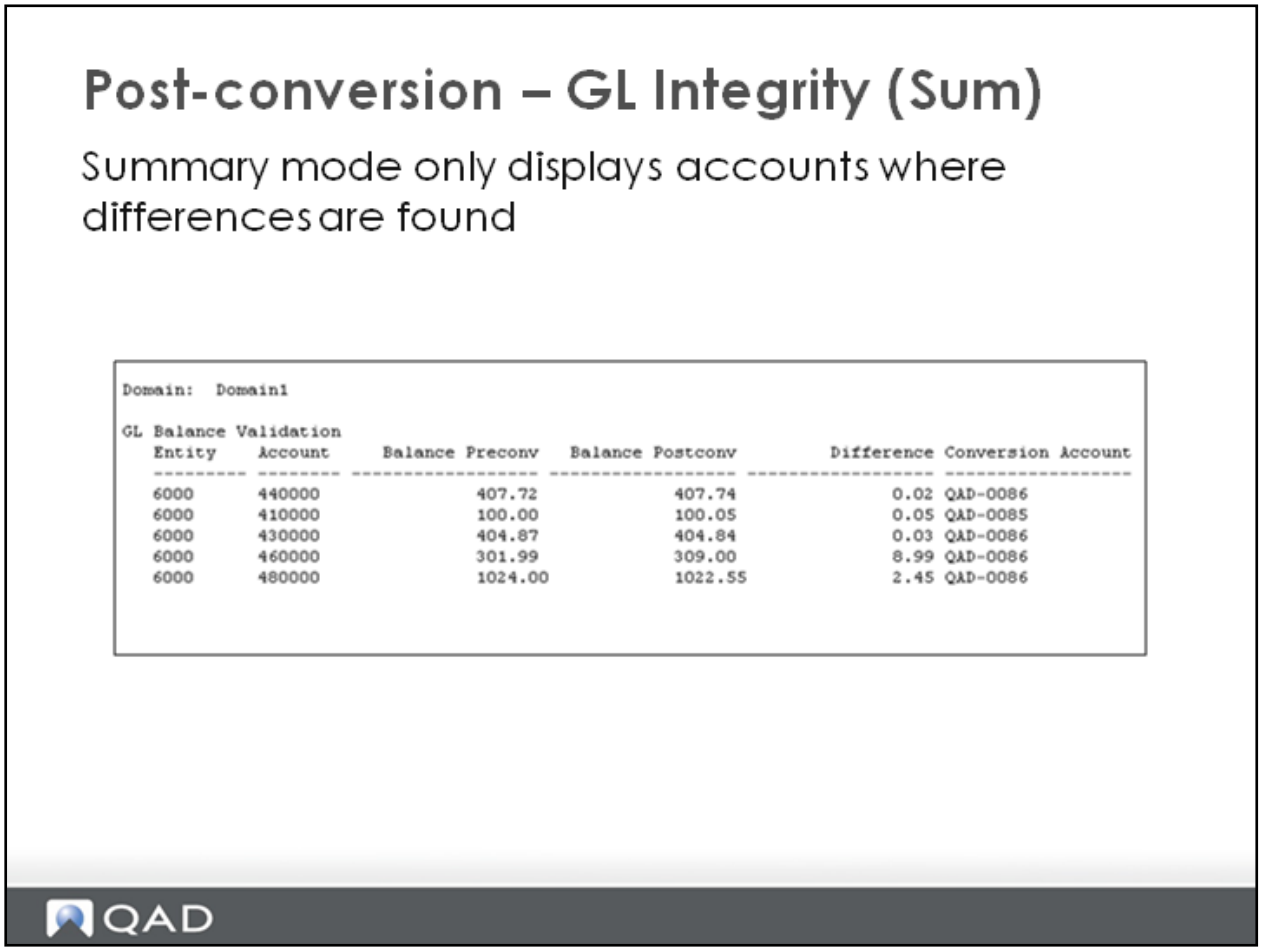
Post-conversion – Integrity Check



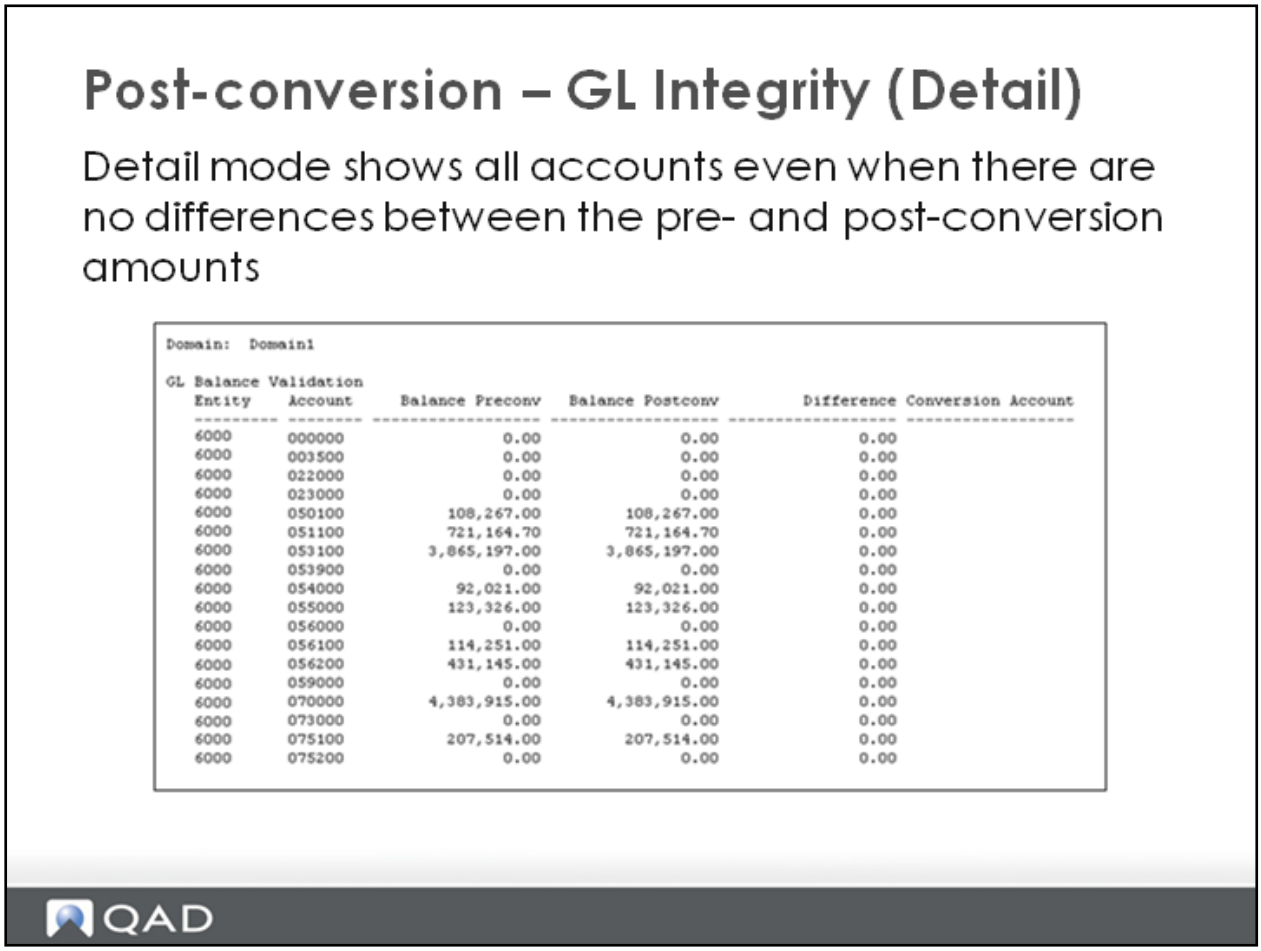
Post-conversion Integrity – Menu



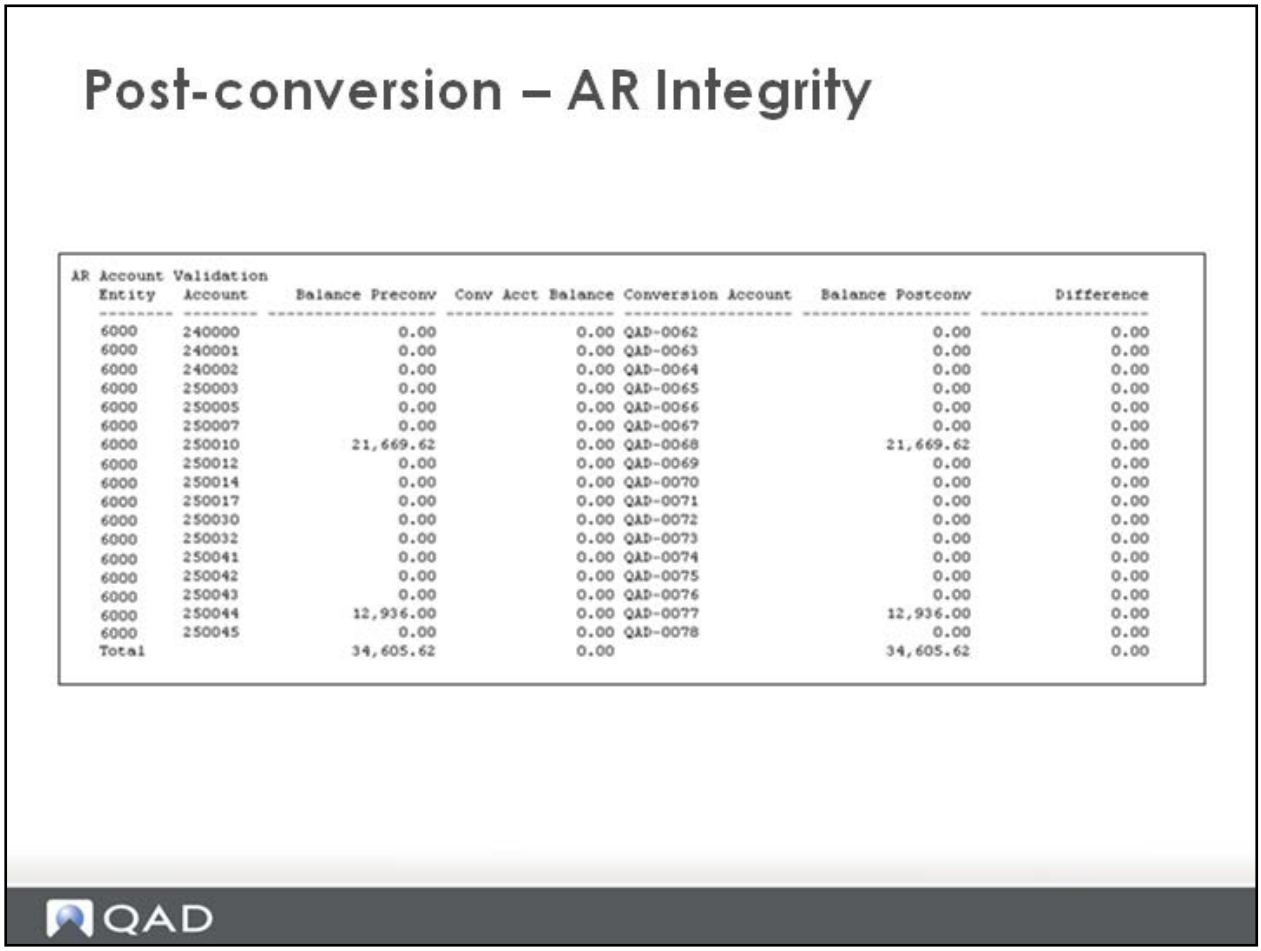
Post-conversion – GL Integrity (Sum)



Post-conversion – GL Integrity (Detail)



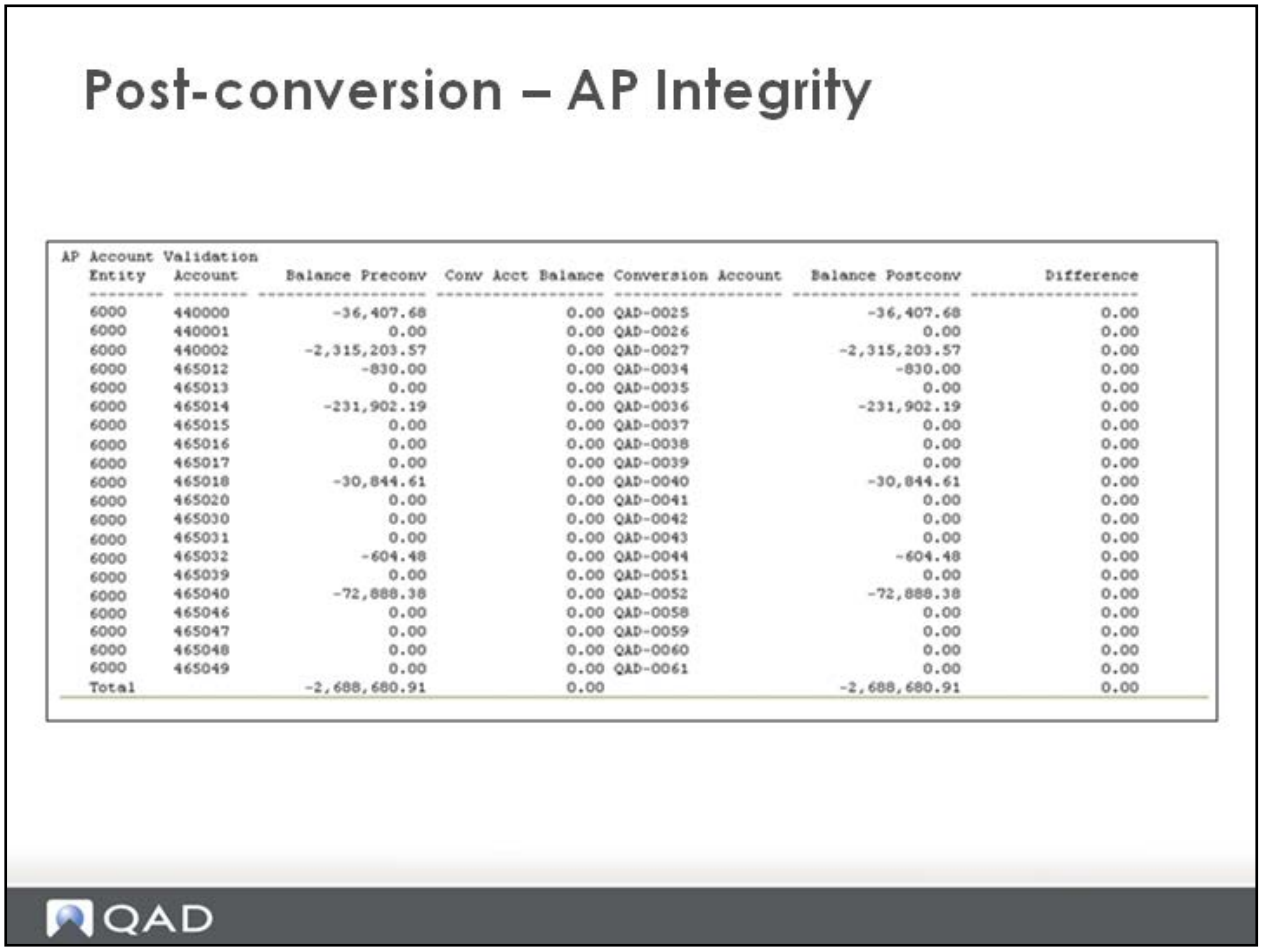
Post-conversion – AR Integrity



AR Account Validation

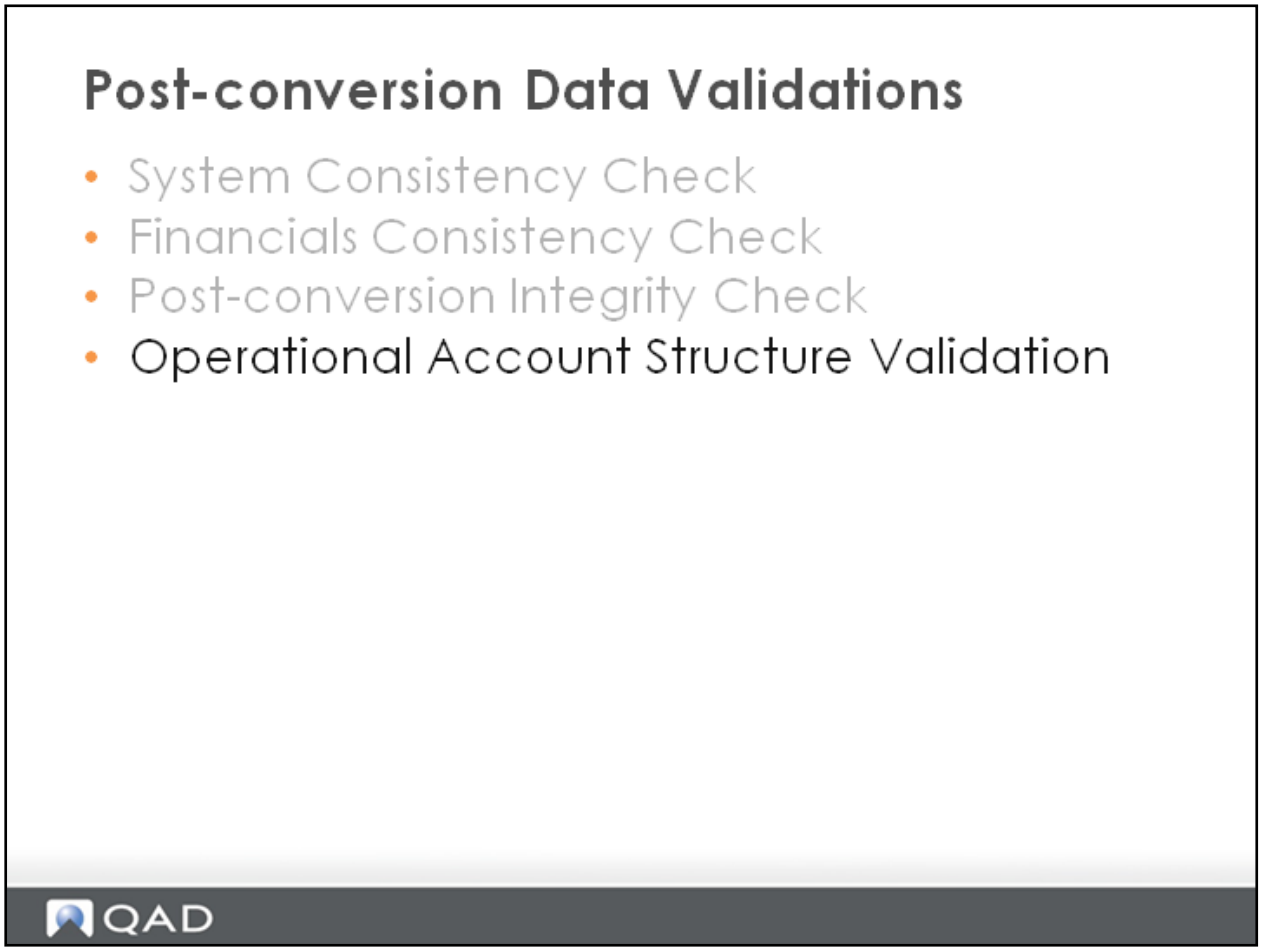
Entity	Account	Balance Preconv	Conv Acct Balance	Conversion Account	Balance Postconv	Difference
6000	240000	0.00	0.00	QAD-0062	0.00	0.00
6000	240001	0.00	0.00	QAD-0063	0.00	0.00
6000	240002	0.00	0.00	QAD-0064	0.00	0.00
6000	250003	0.00	0.00	QAD-0065	0.00	0.00
6000	250005	0.00	0.00	QAD-0066	0.00	0.00
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

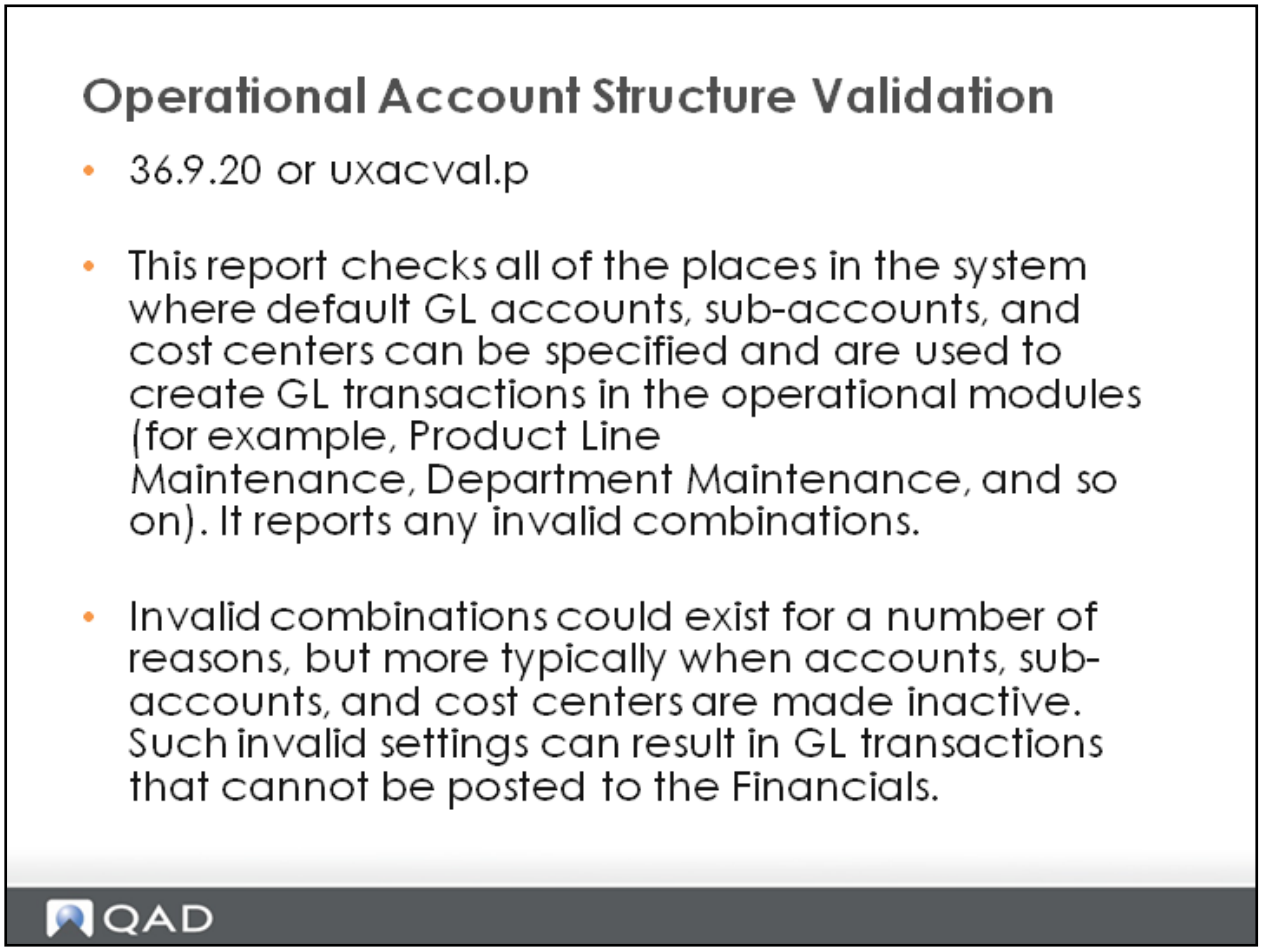


AP Account Entity	Validation Account	Balance Preconv	Conv Acct Balance	Conversion Account	Balance Postconv	Difference
6000	440000	-36,407.68	0.00	QAD-0025	-36,407.68	0.00
6000	440001	0.00	0.00	QAD-0026	0.00	0.00
6000	440002	-2,315,203.57	0.00	QAD-0027	-2,315,203.57	0.00
6000	465012	-830.00	0.00	QAD-0034	-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

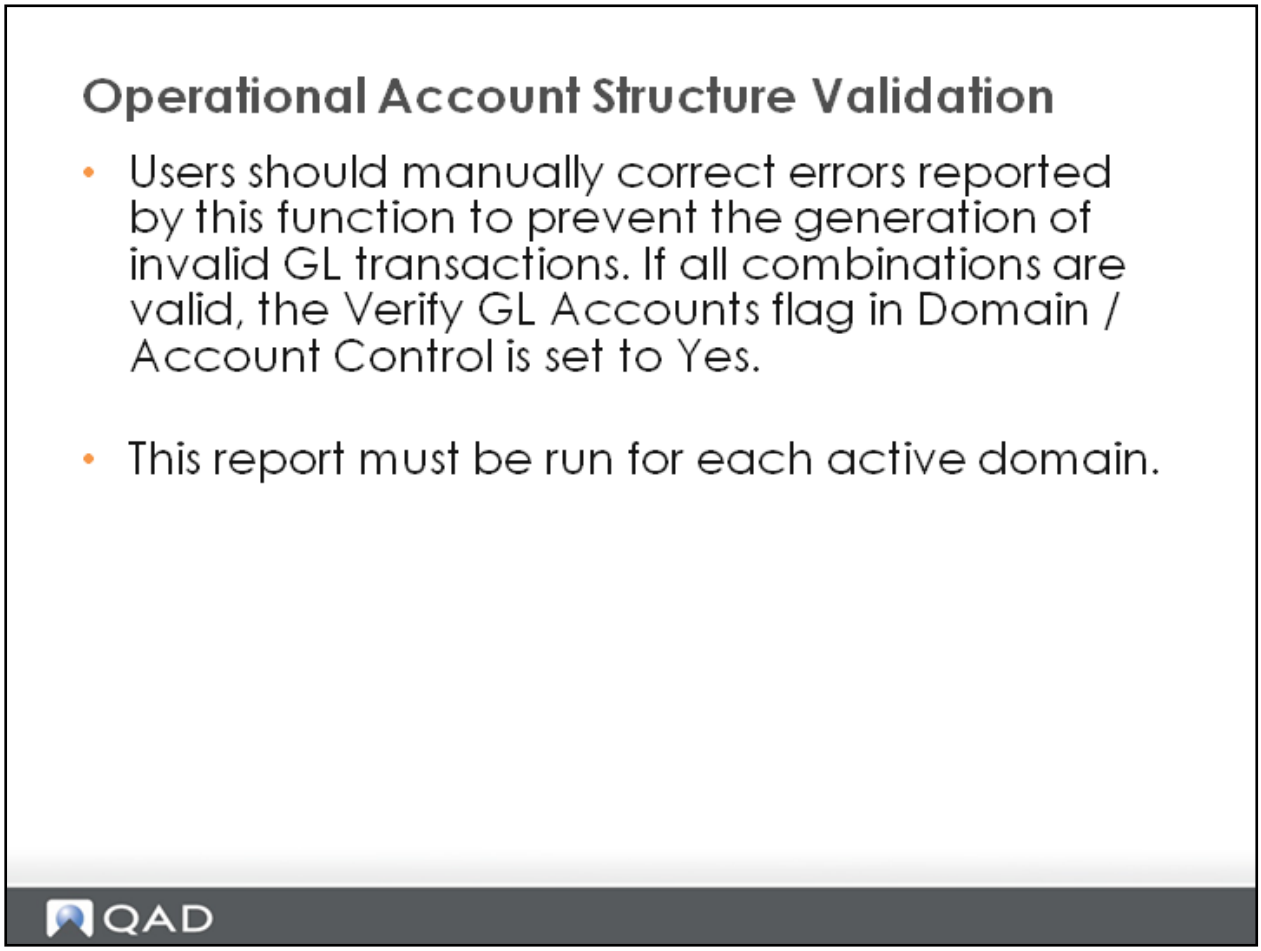
Post-conversion Data Validations



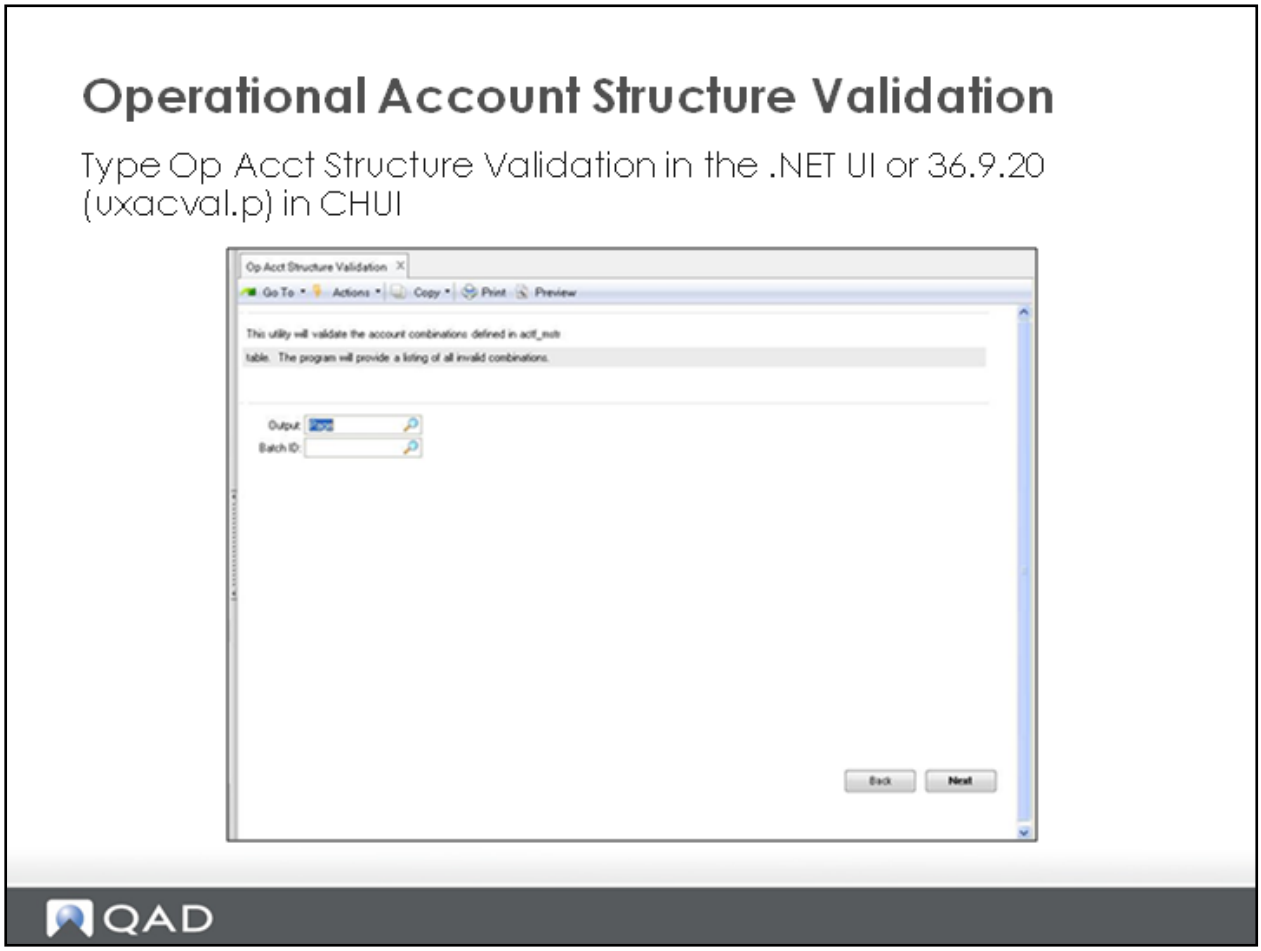
Operational Account Structure Validation



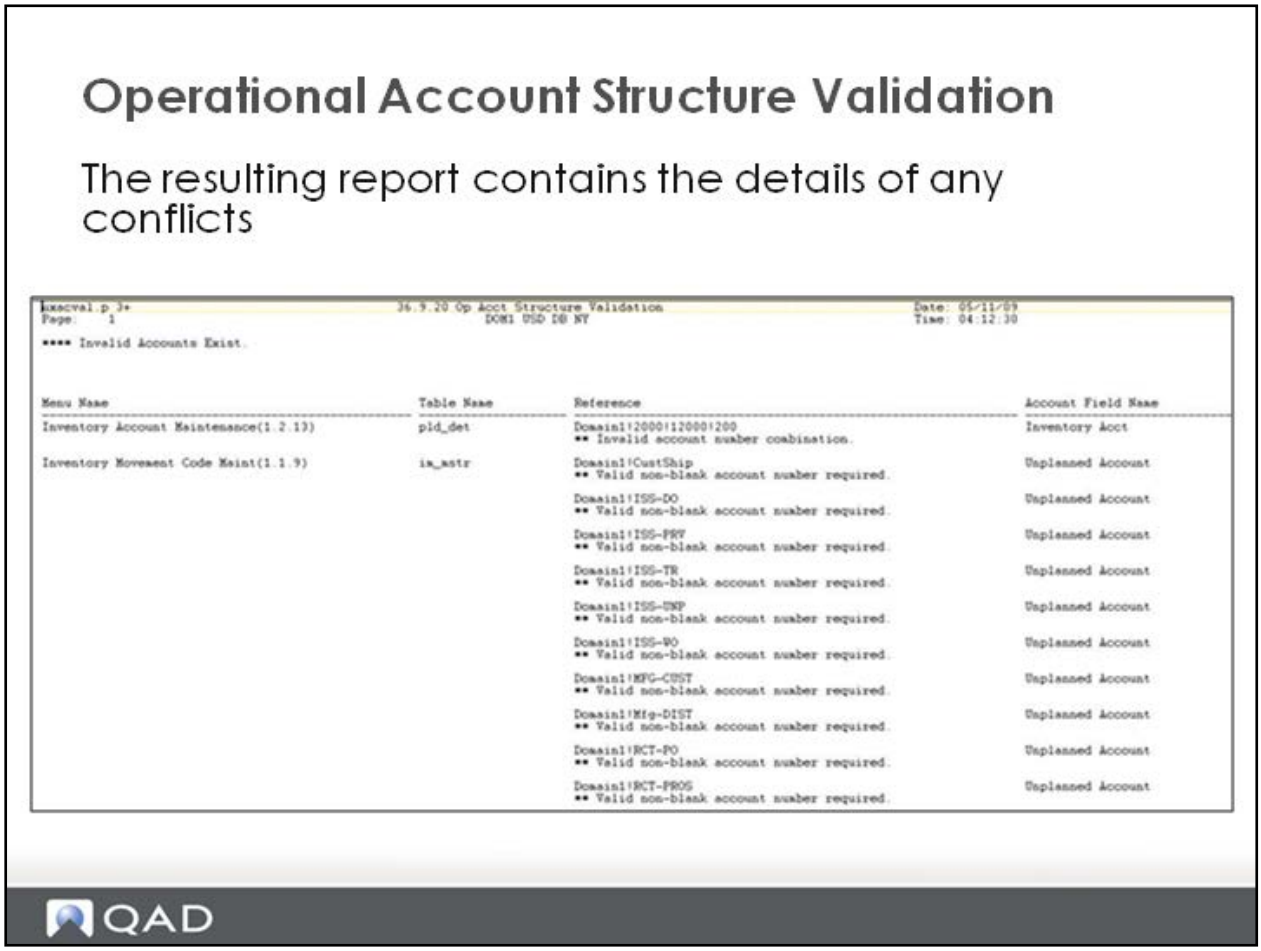
Operational Account Structure Validation



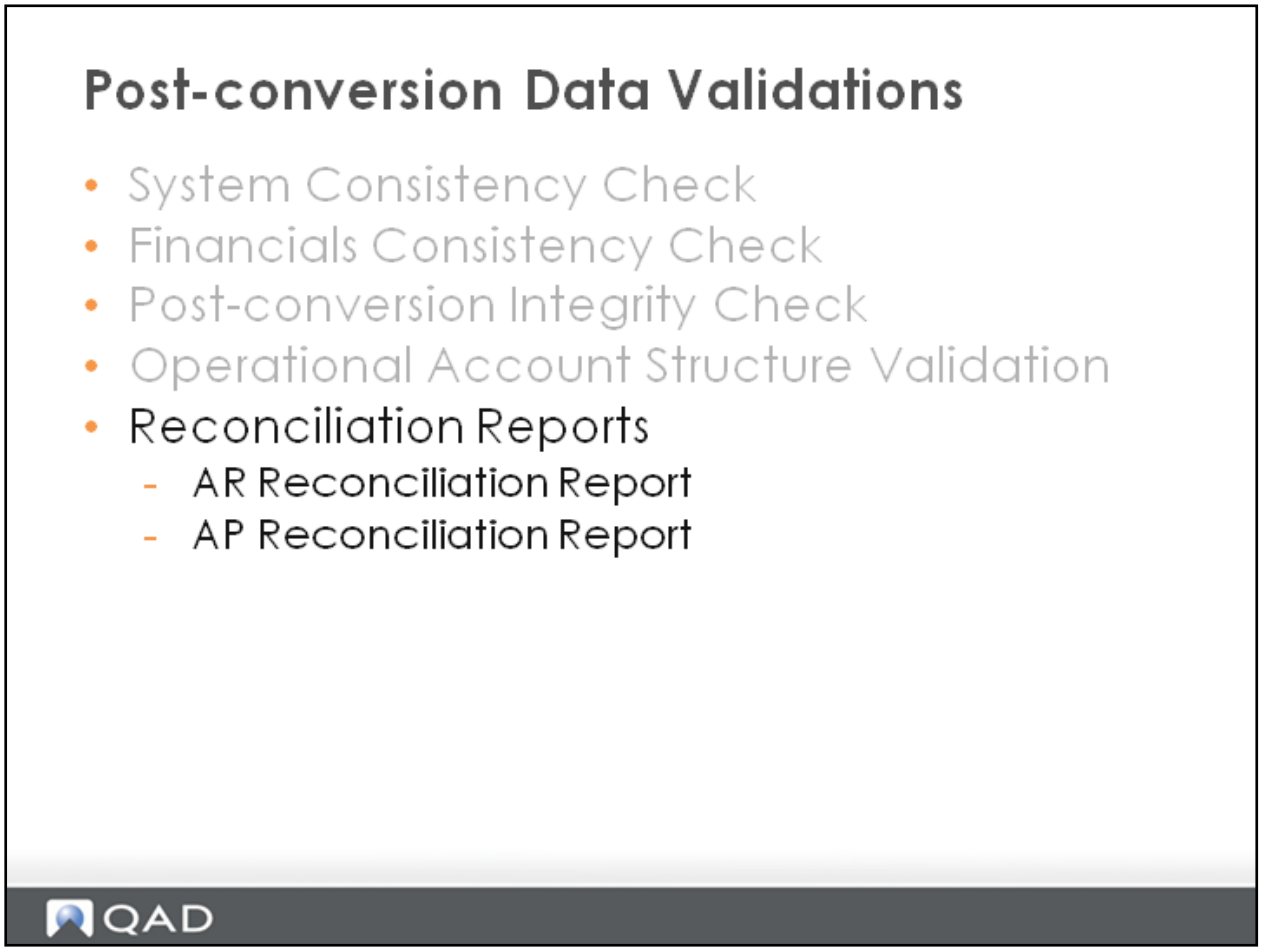
Operational Account Structure Validation



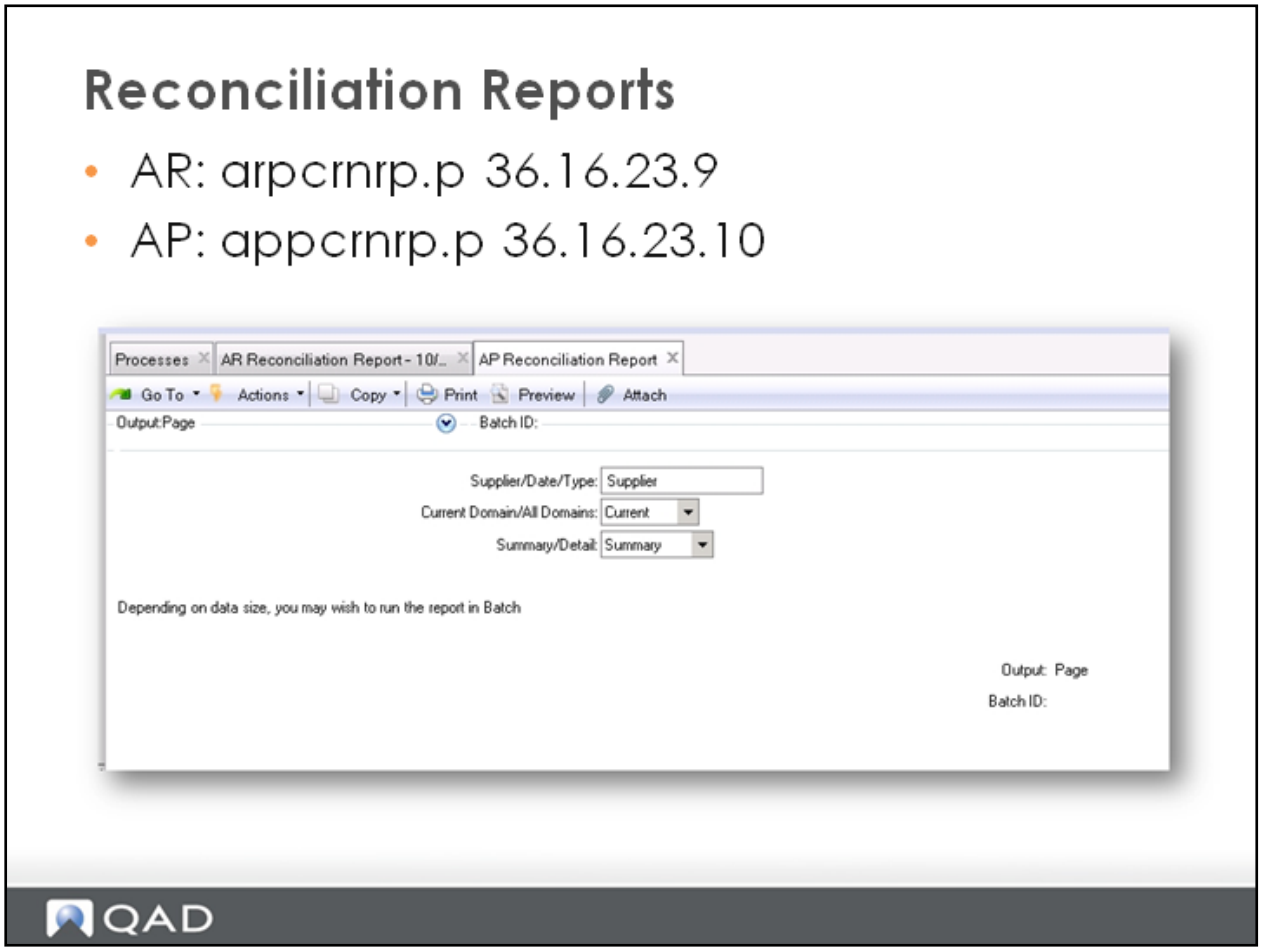
Operational Account Structure Validation



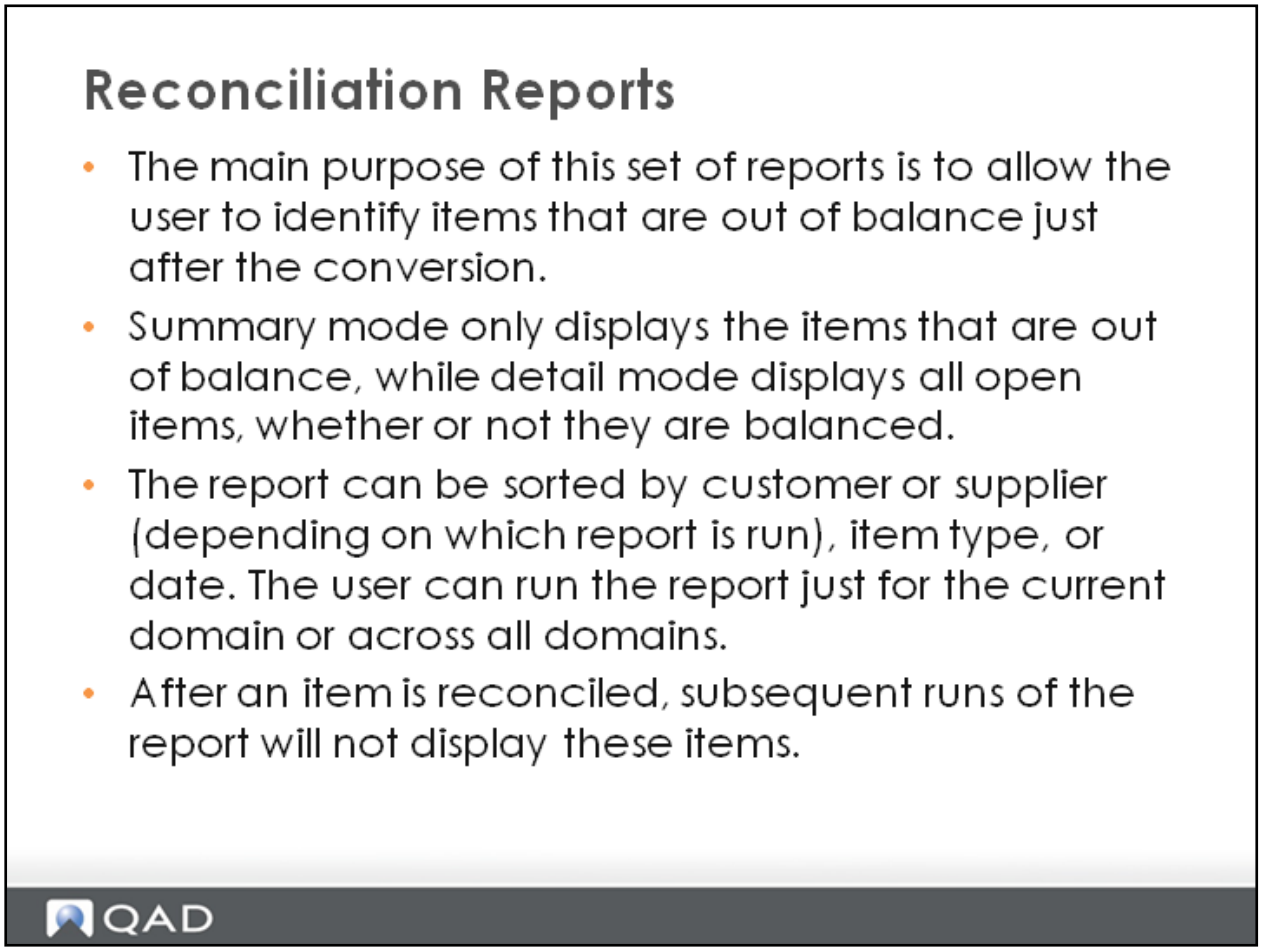
Post-conversion Data Validations



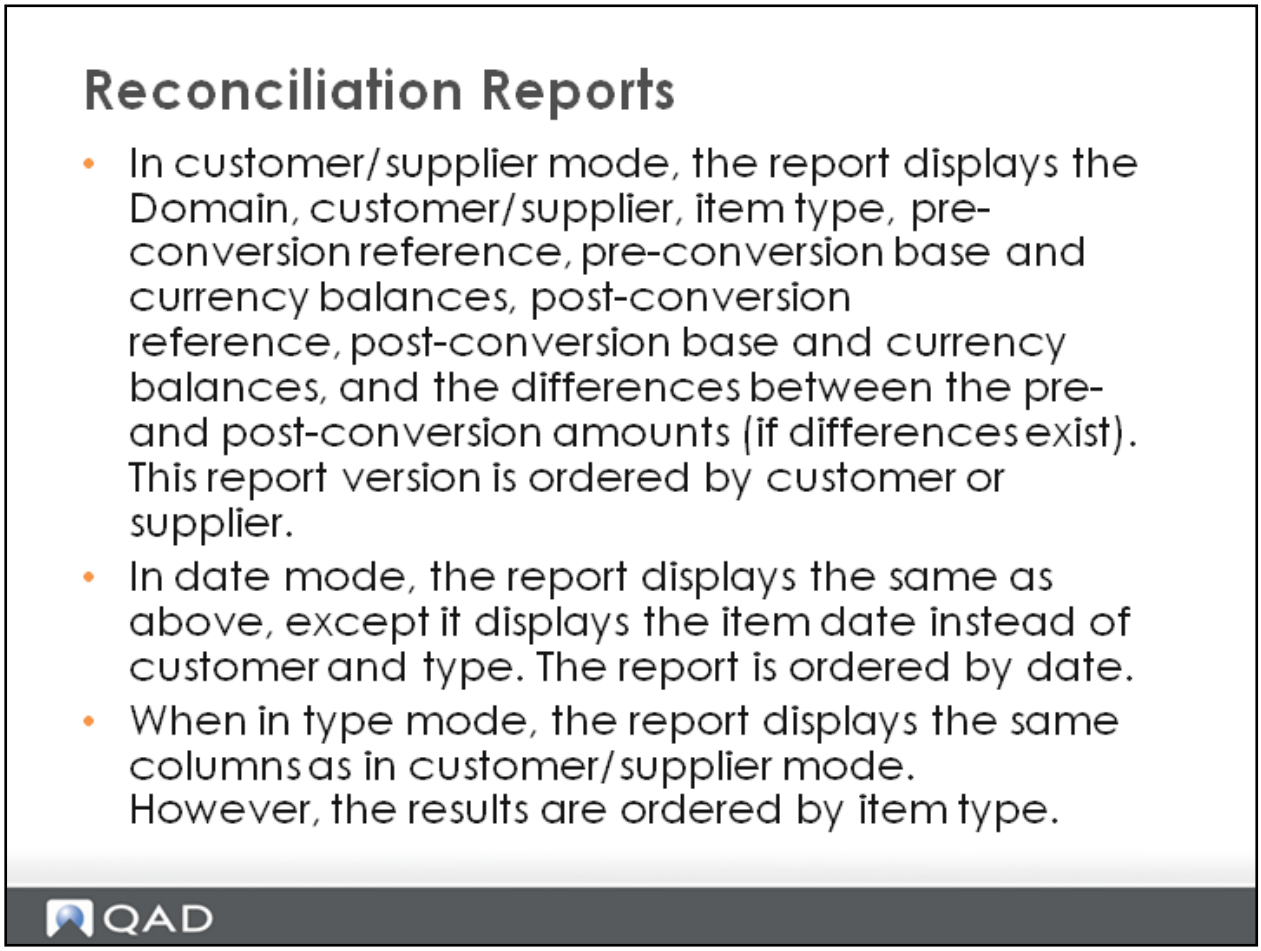
Reconciliation Reports



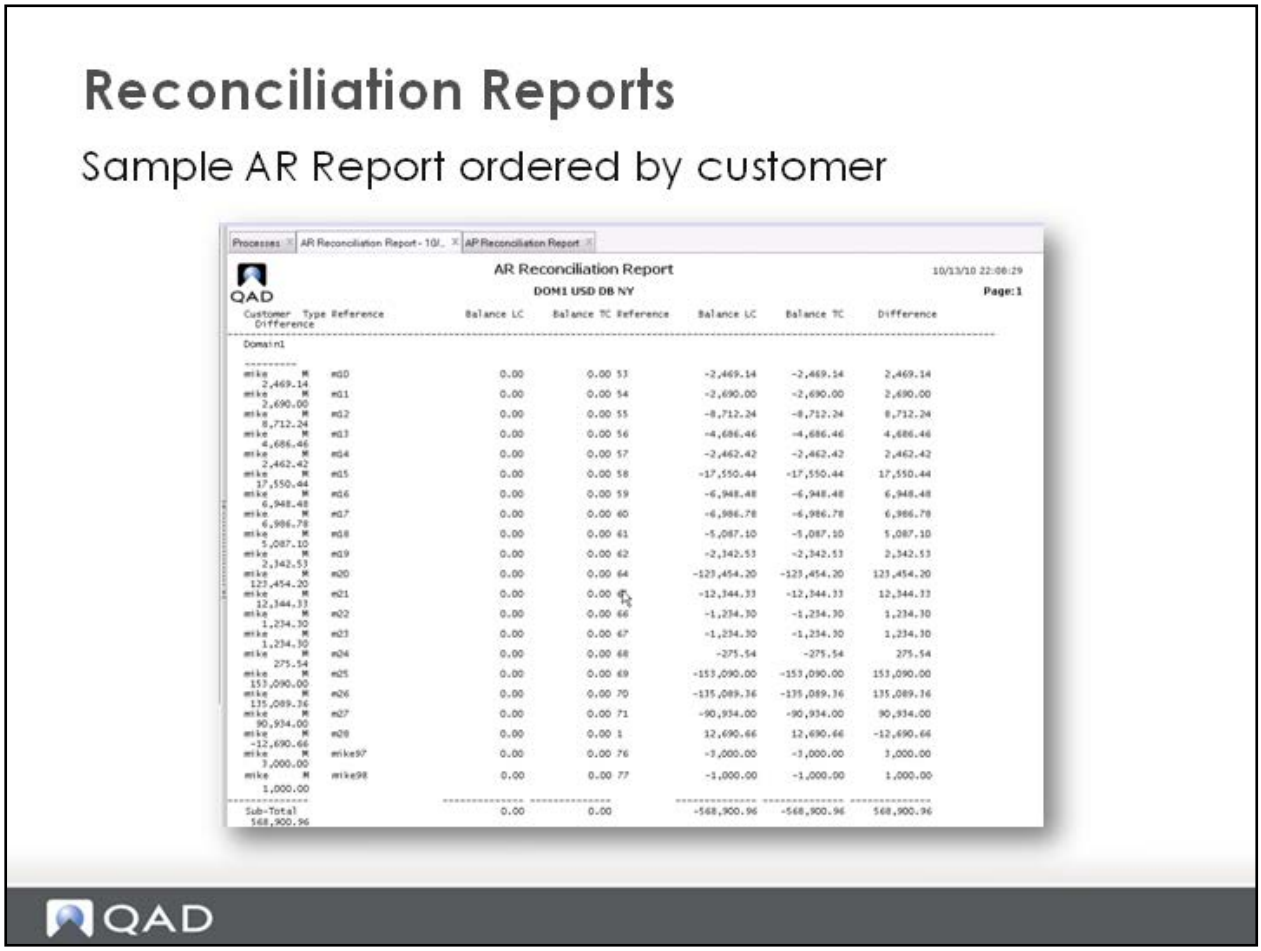
Reconciliation Reports



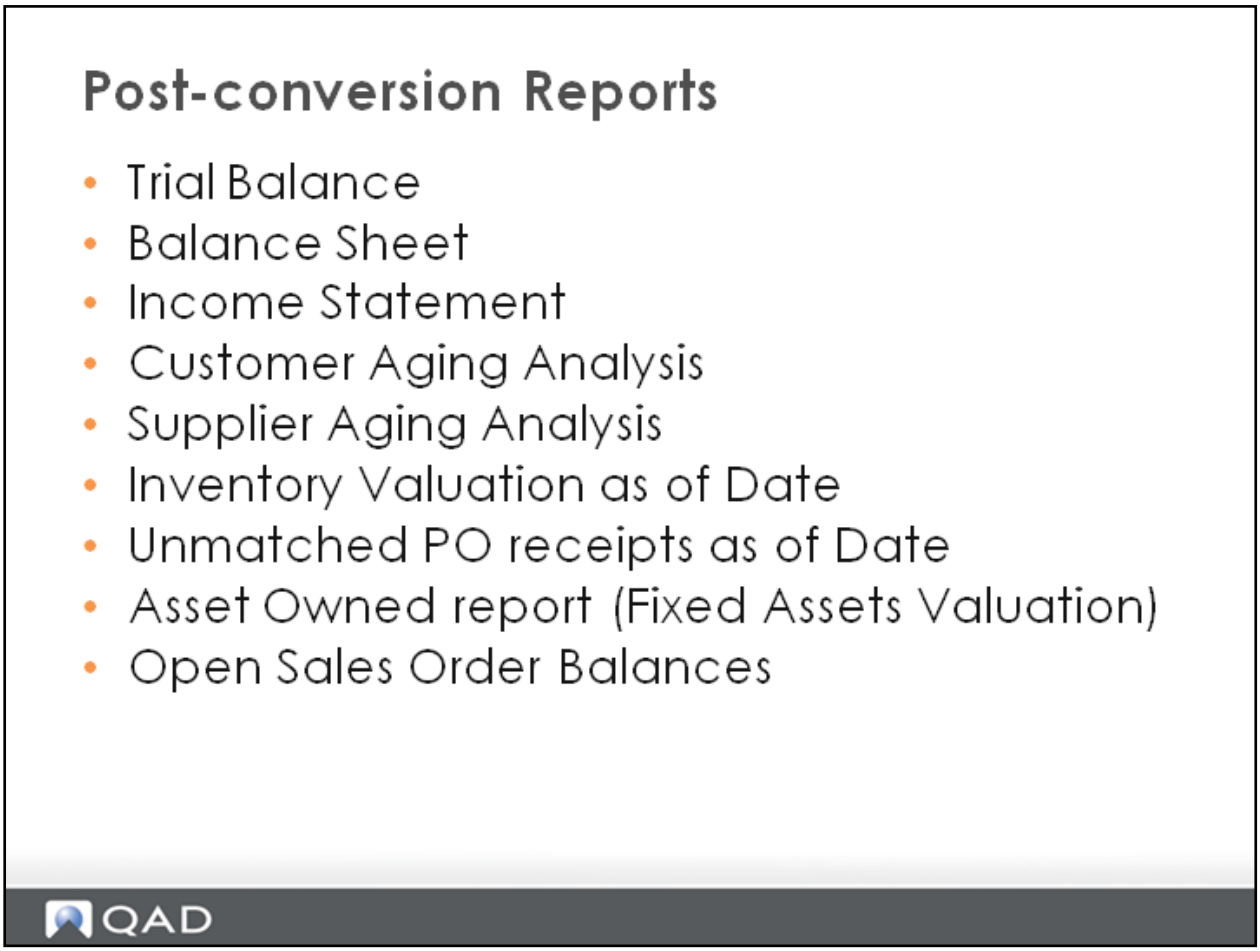
Reconciliation Reports



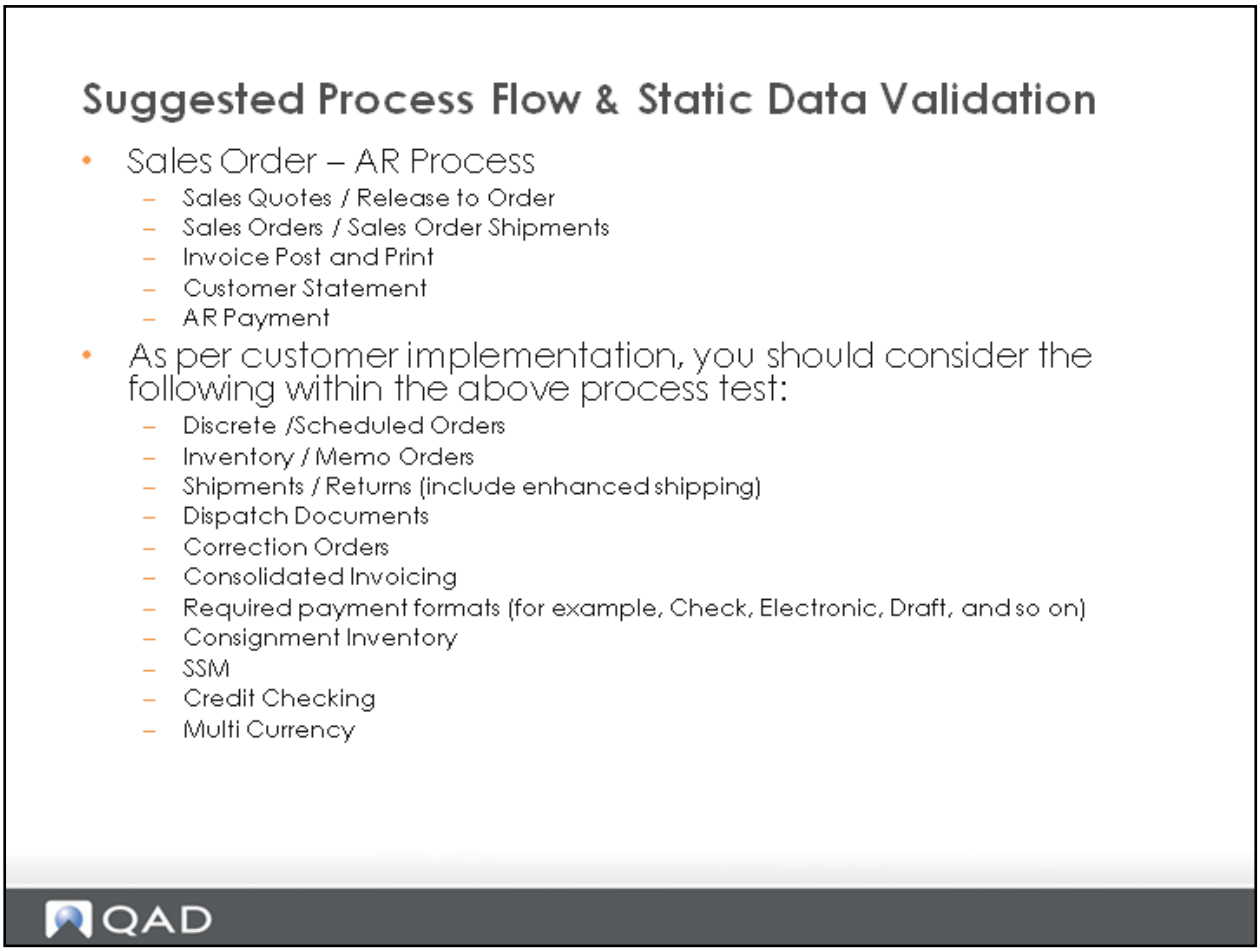
Reconciliation Reports



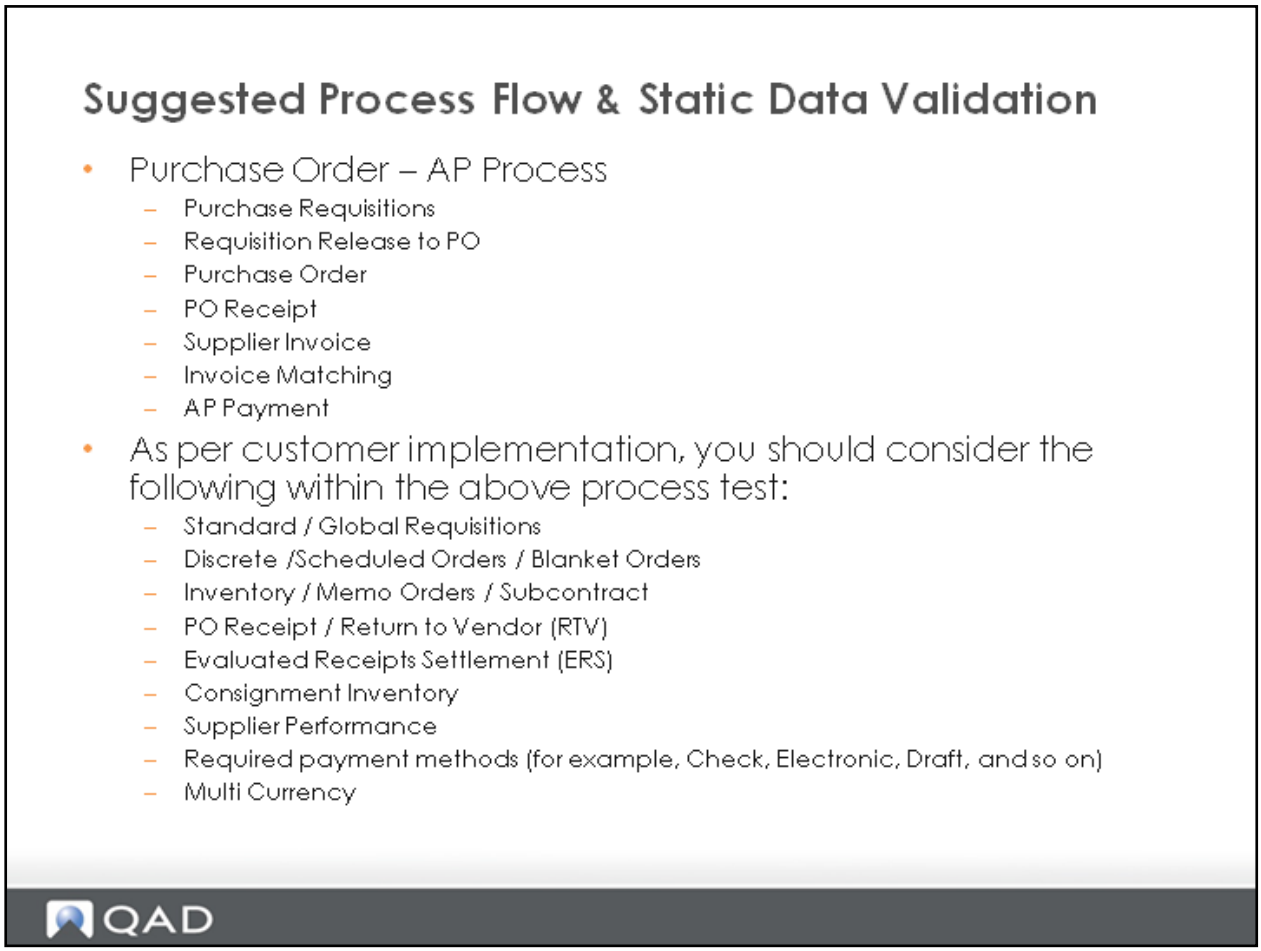
Post-conversion Reports



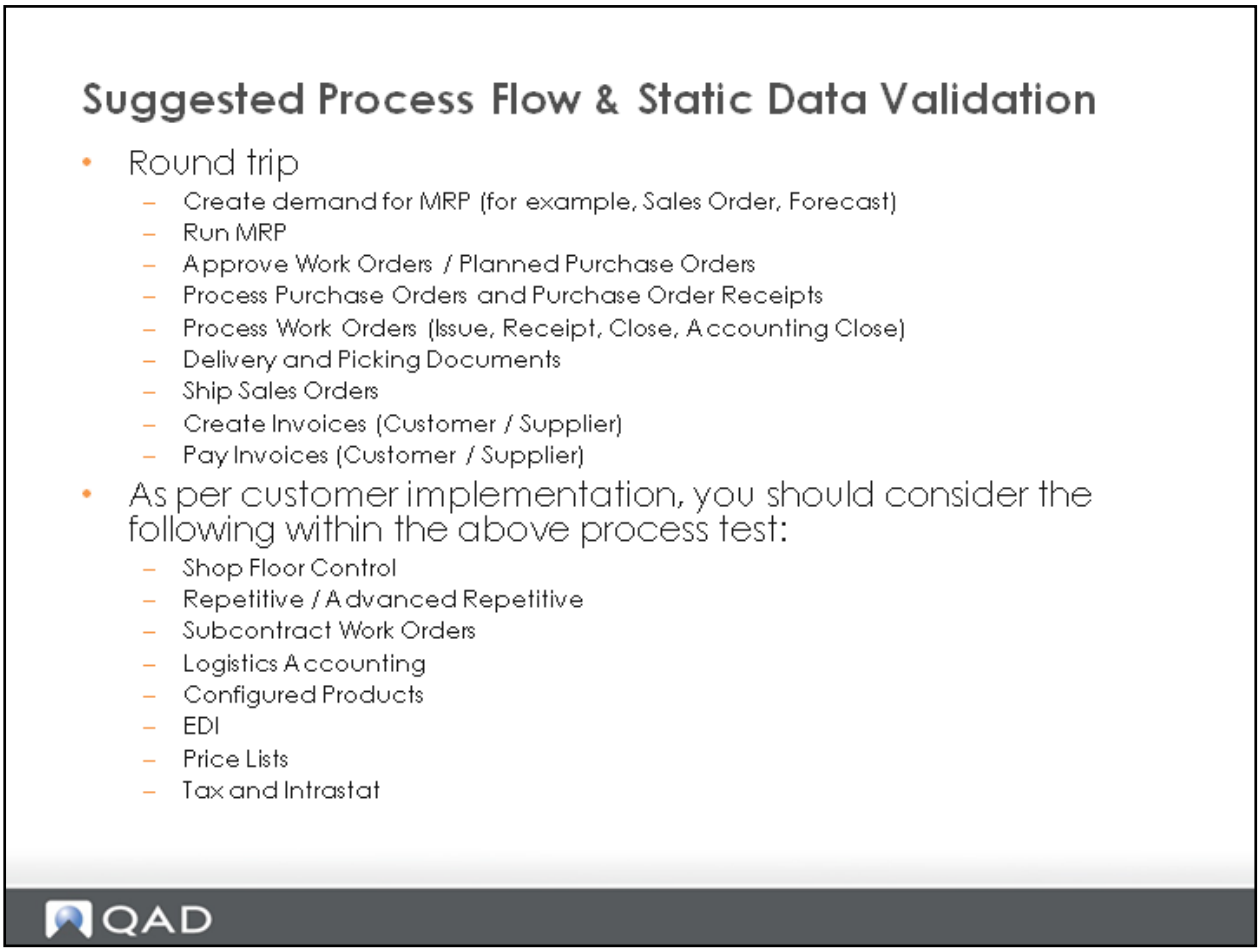
Suggested Process Flow & Static Data Validation



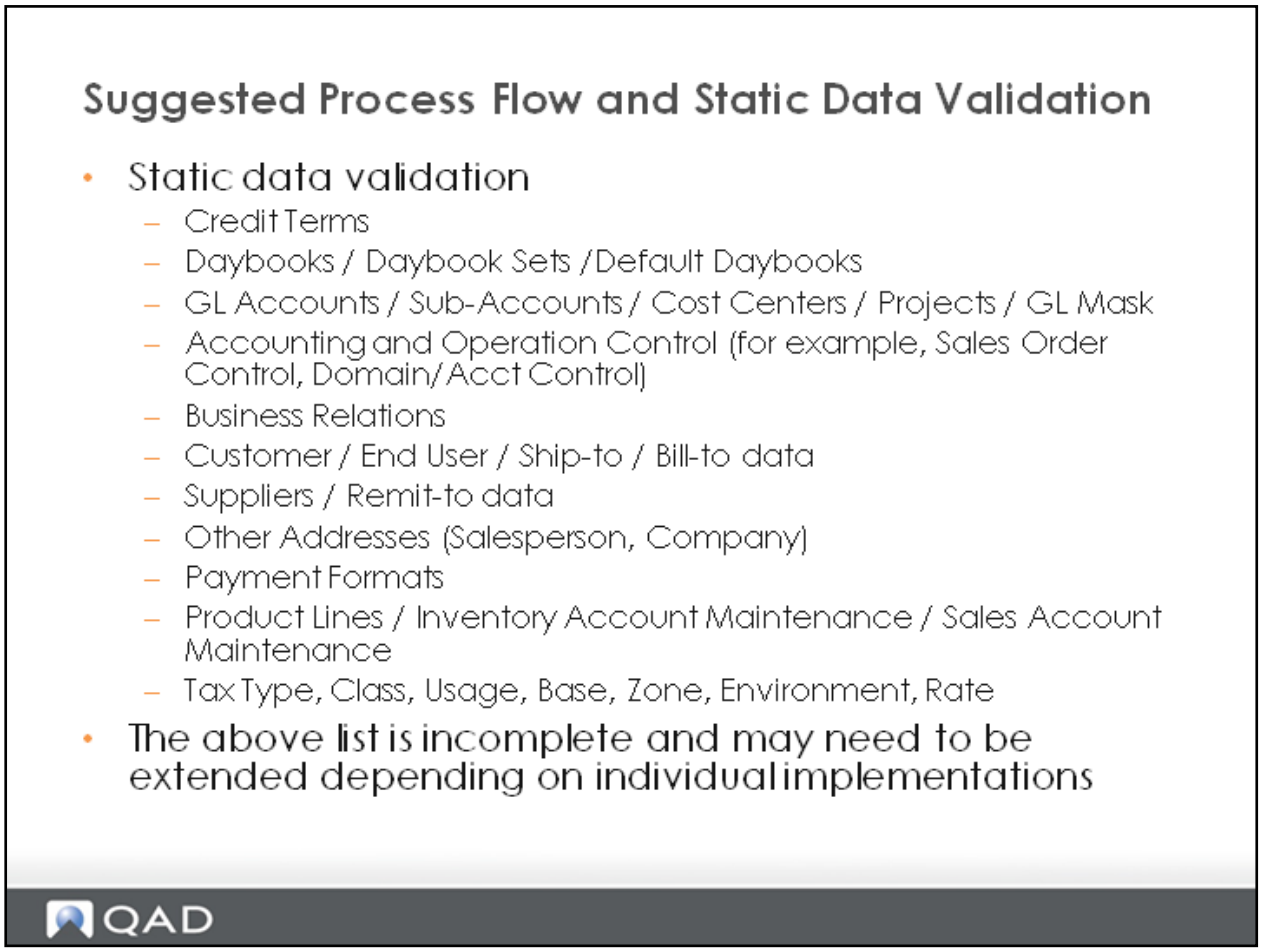
Suggested Process Flow & Static Data Validation



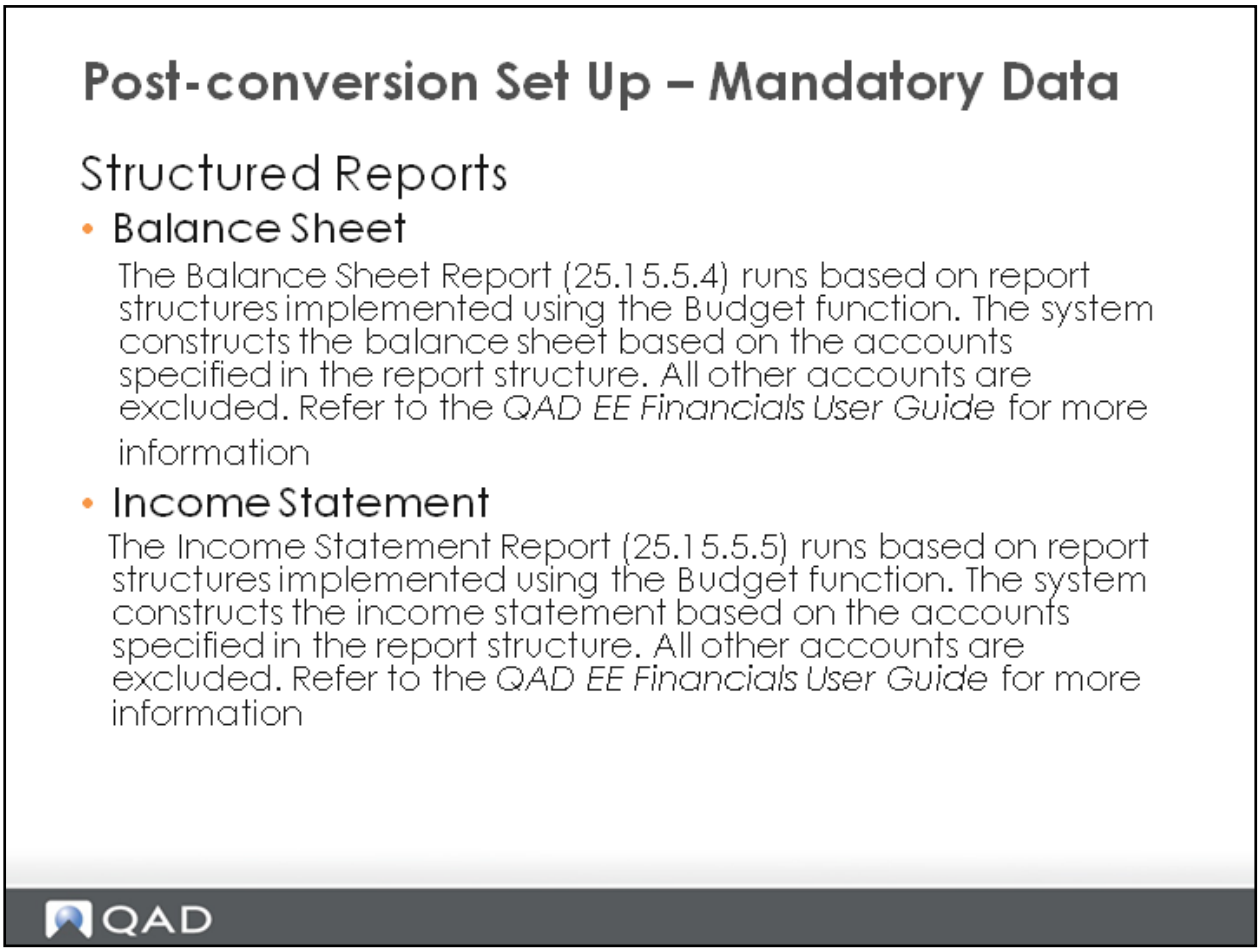
Suggested Process Flow & Static Data Validation



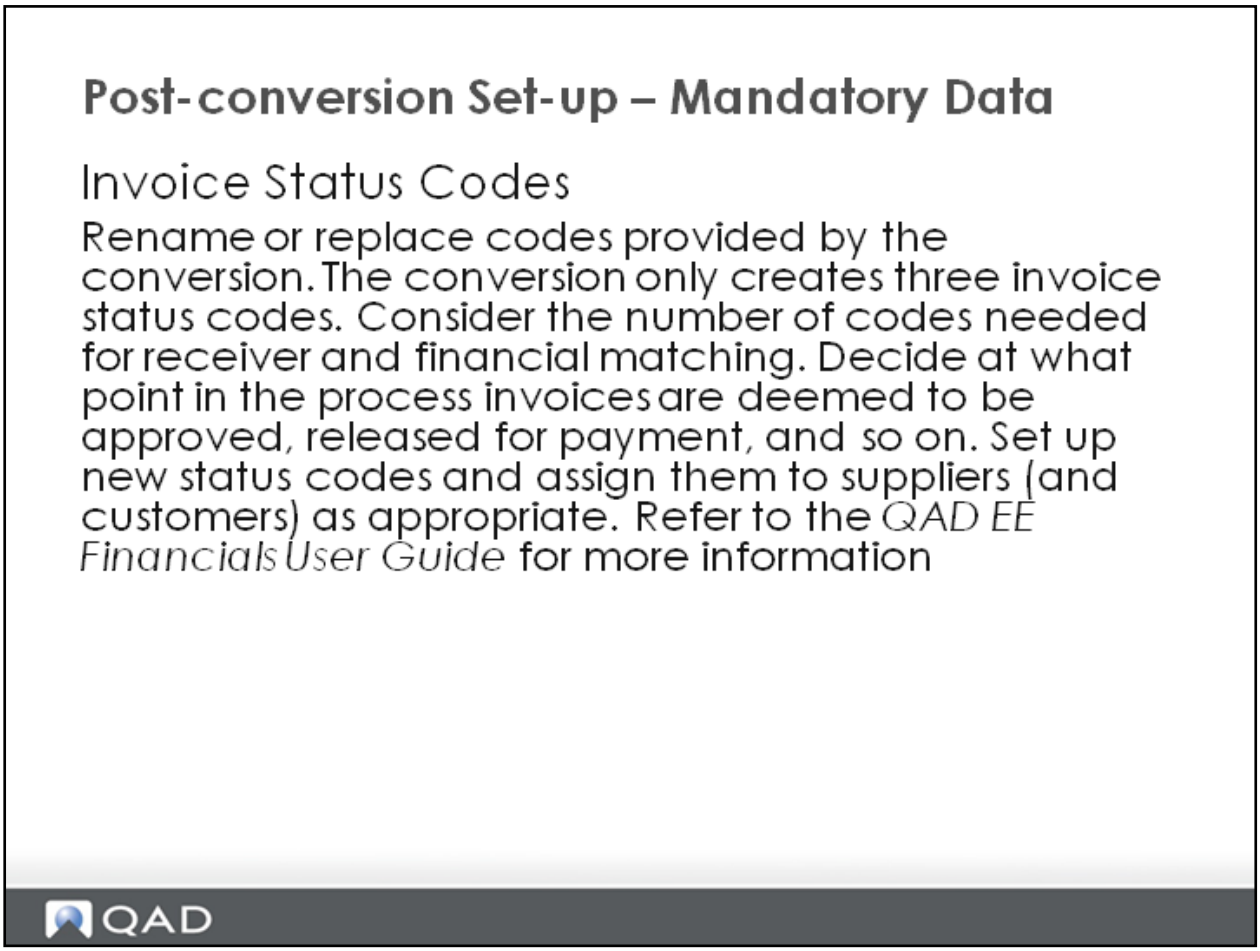
Suggested Process Flow and Static Data Validation



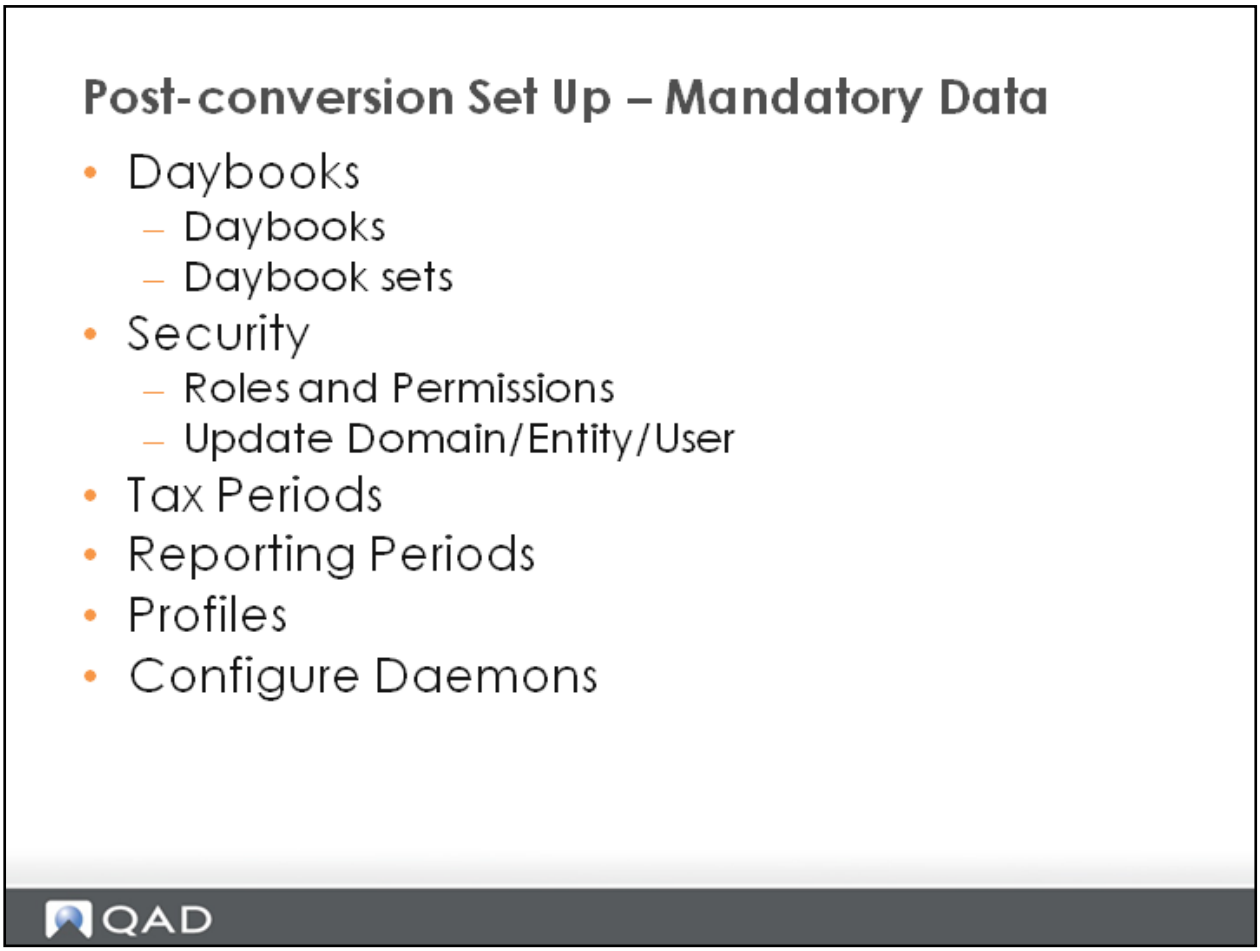
Post-conversion Set Up – Mandatory Data



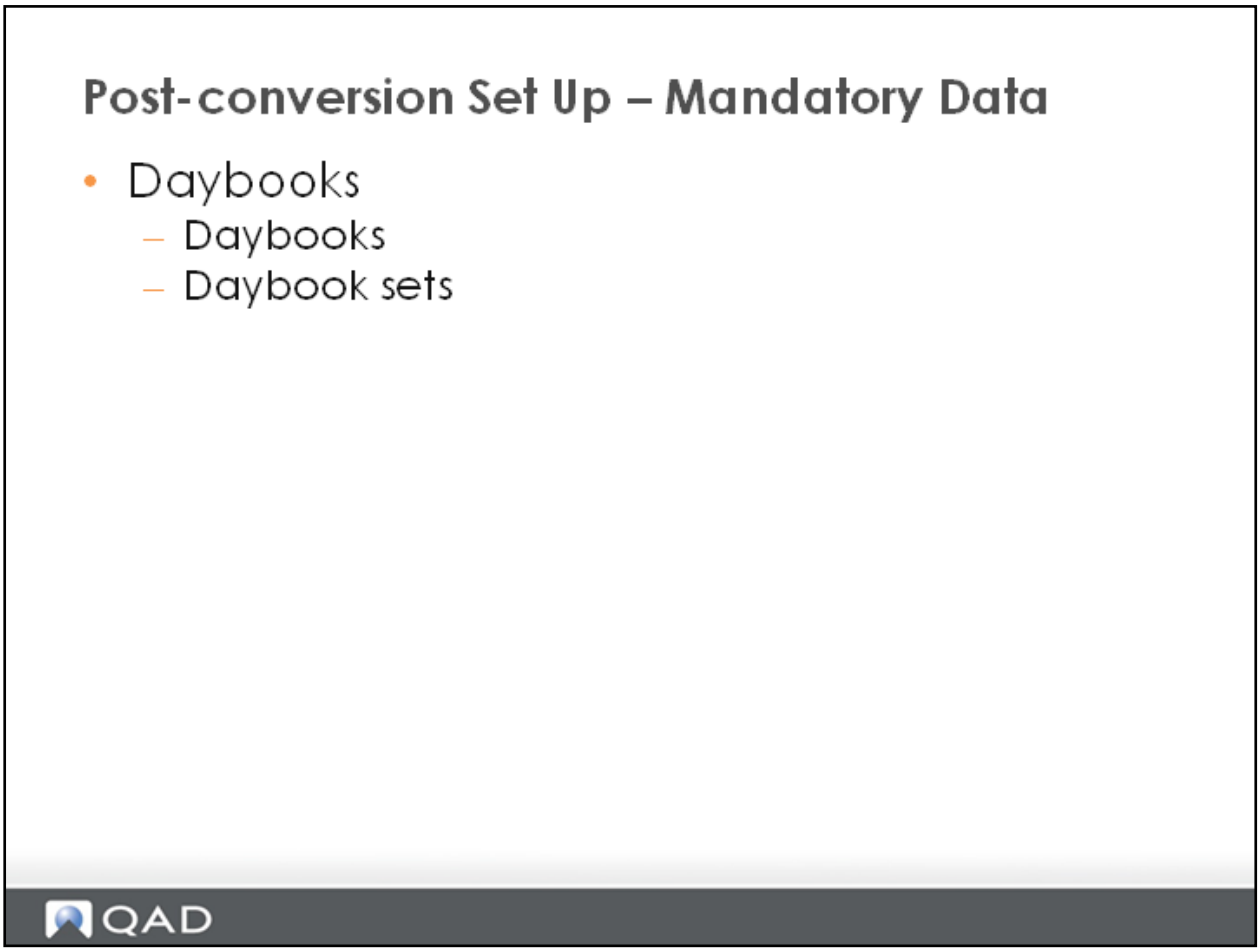
Post-conversion Set-up – Mandatory Data



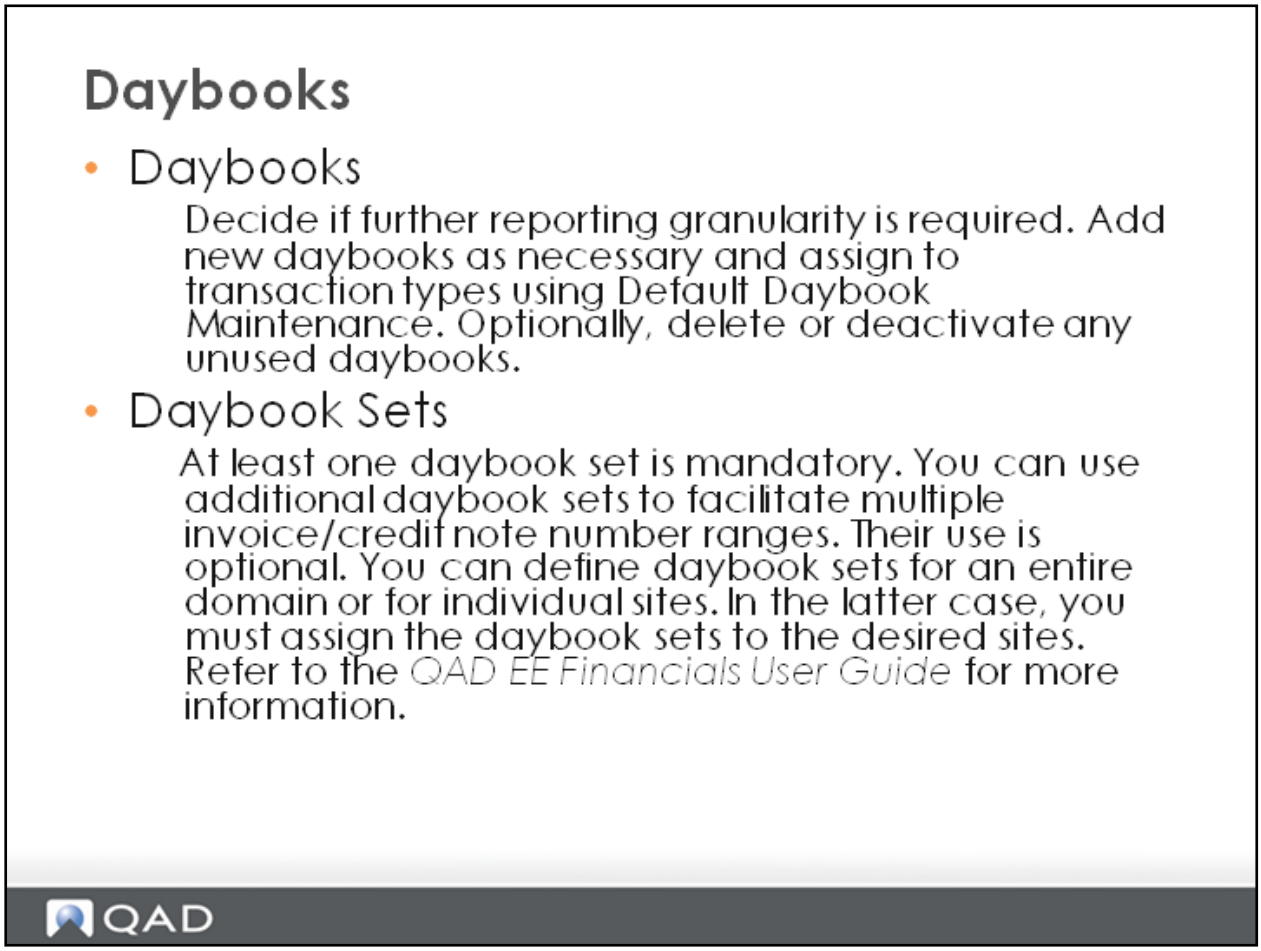
Post-conversion Set Up – Mandatory Data



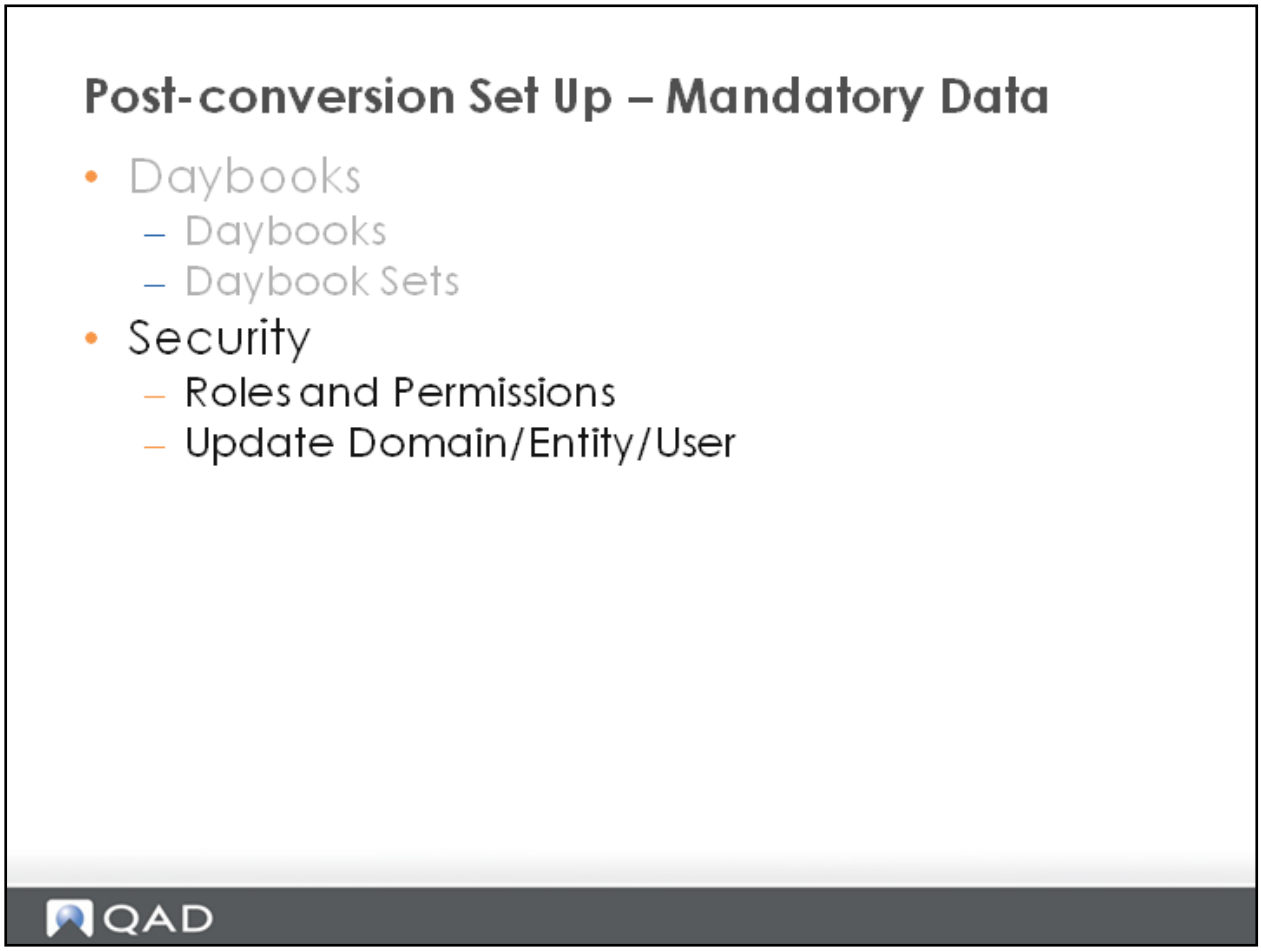
Post-conversion Set Up – Mandatory Data



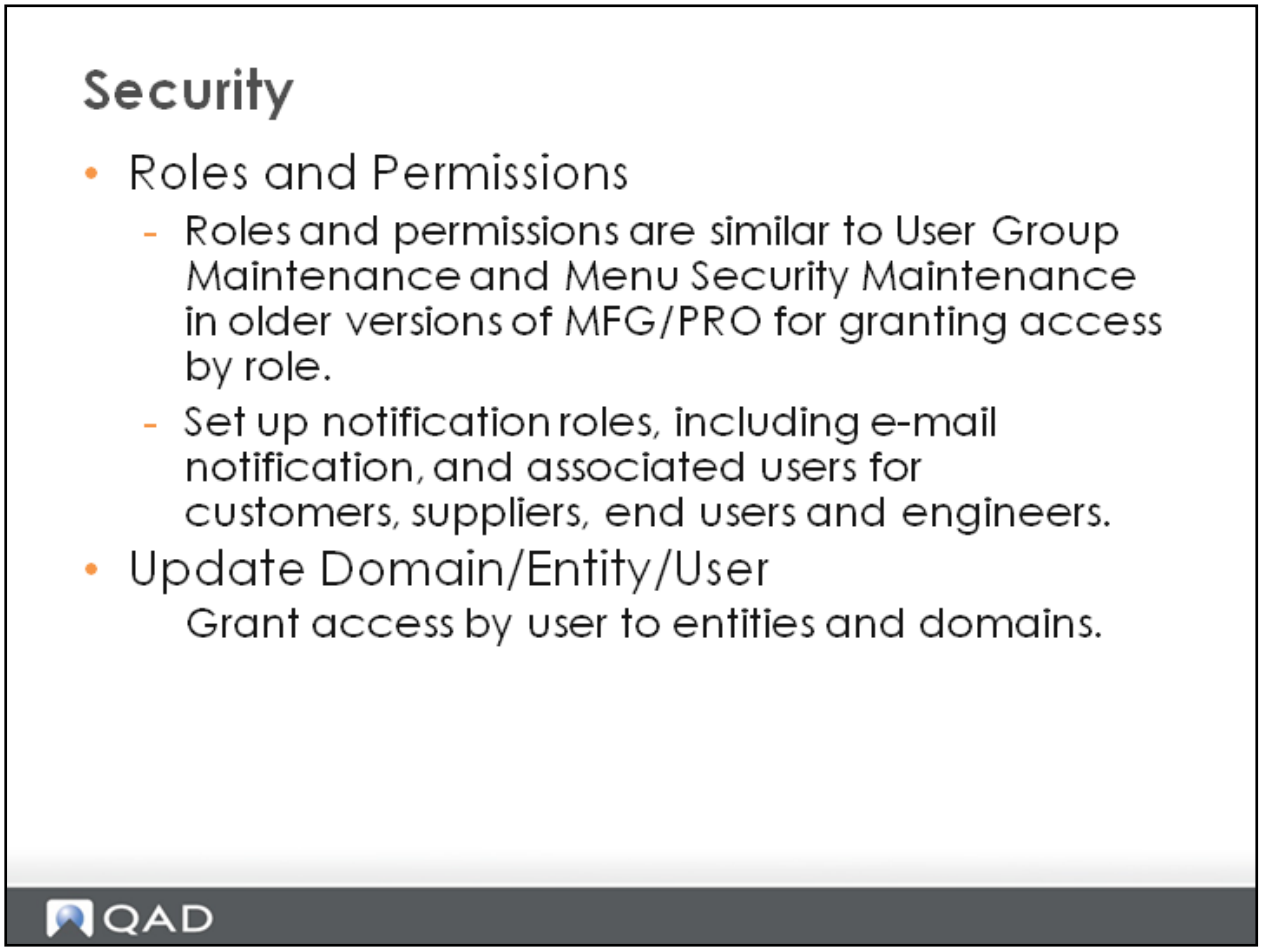
Daybooks


Daybooks
Daybooks
Decide if 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. You can use additional daybook sets to facilitate multiple invoice/credit note number ranges. Their use is optional. You can define daybook sets for an entire domain or for individual sites. In the latter case, you must assign the daybook sets to the desired sites. Refer to the QAD EE Financials User Guide for more information.
QAD

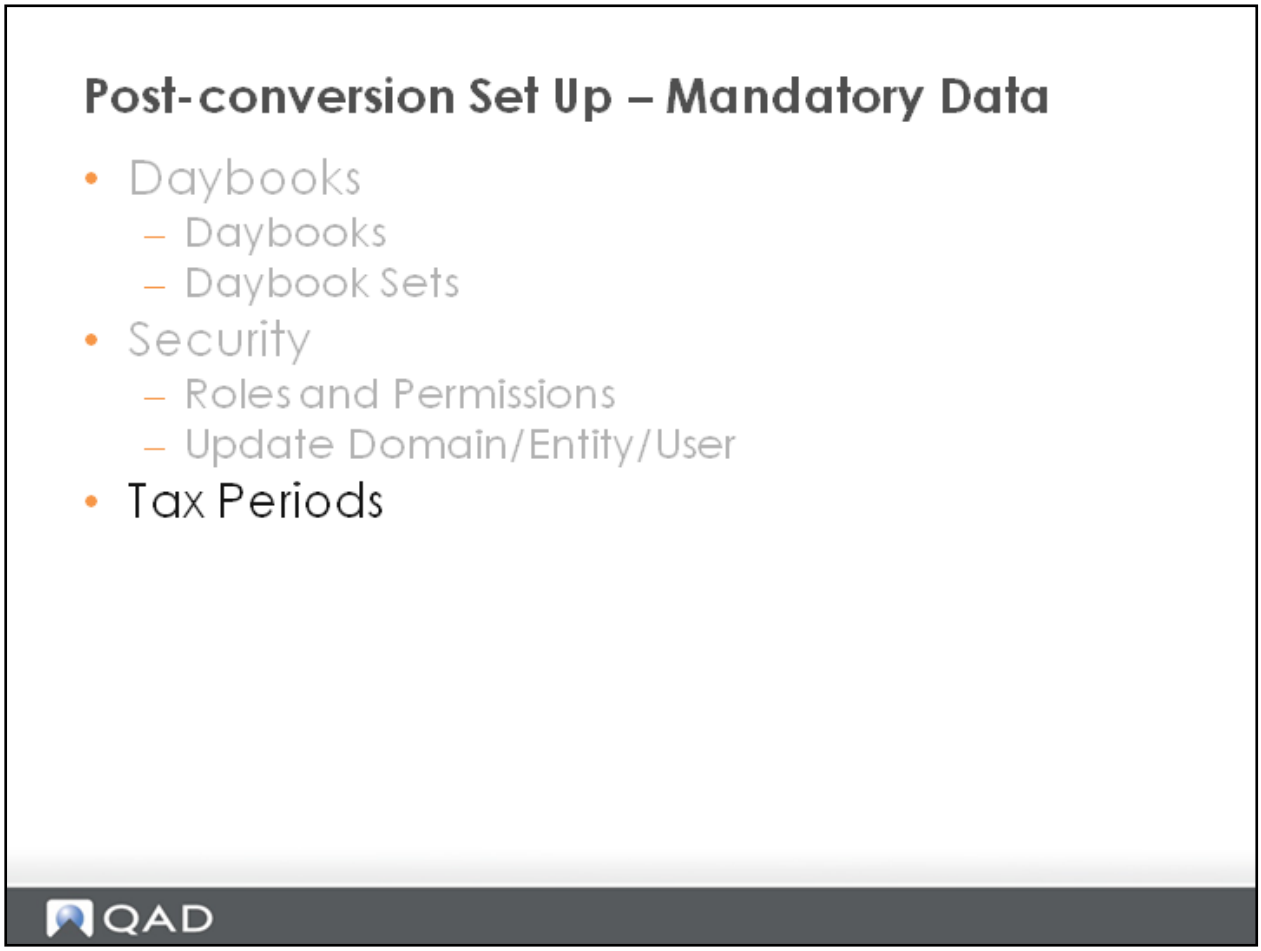
Post-conversion Set Up – Mandatory Data



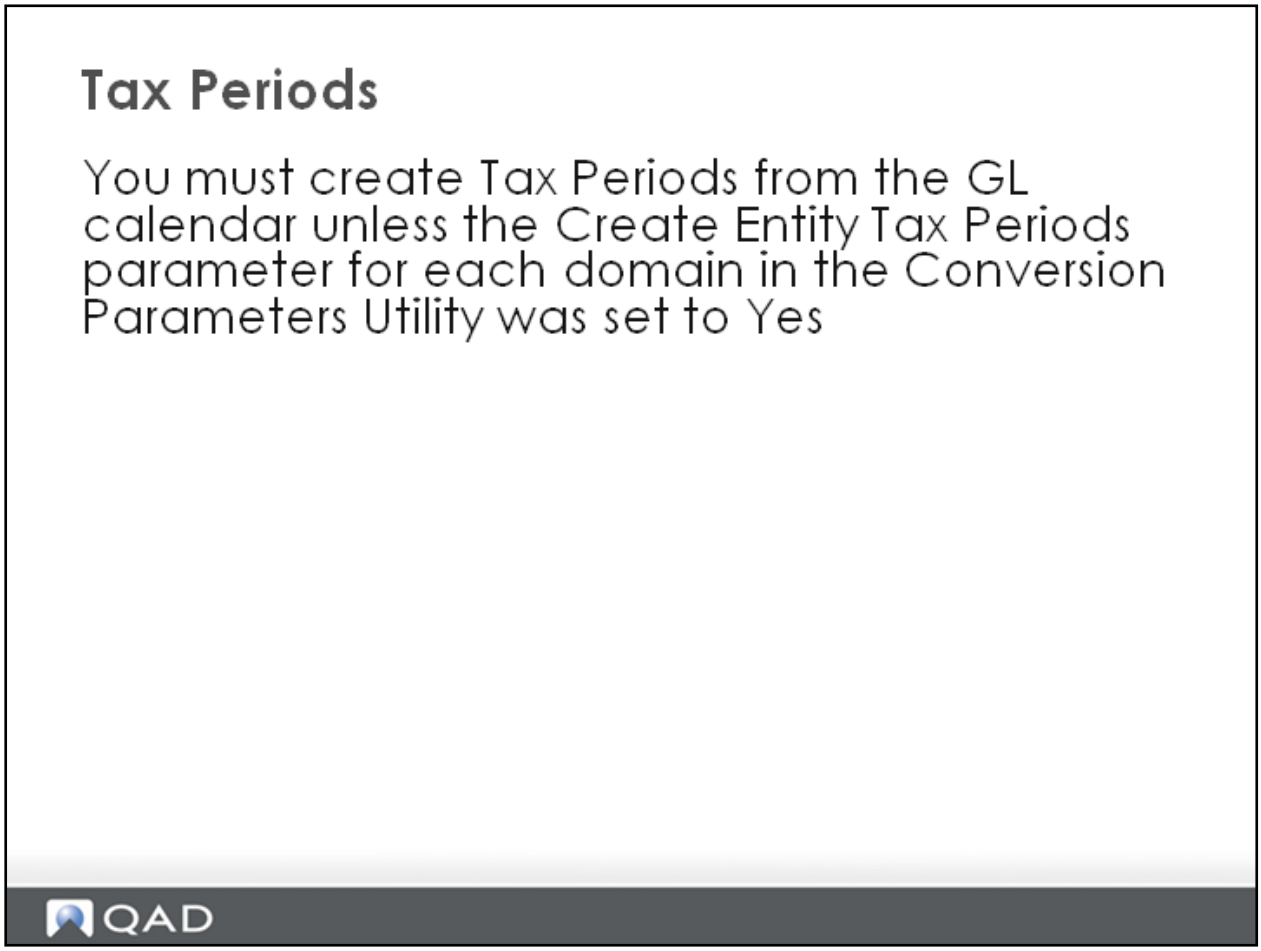
Security


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

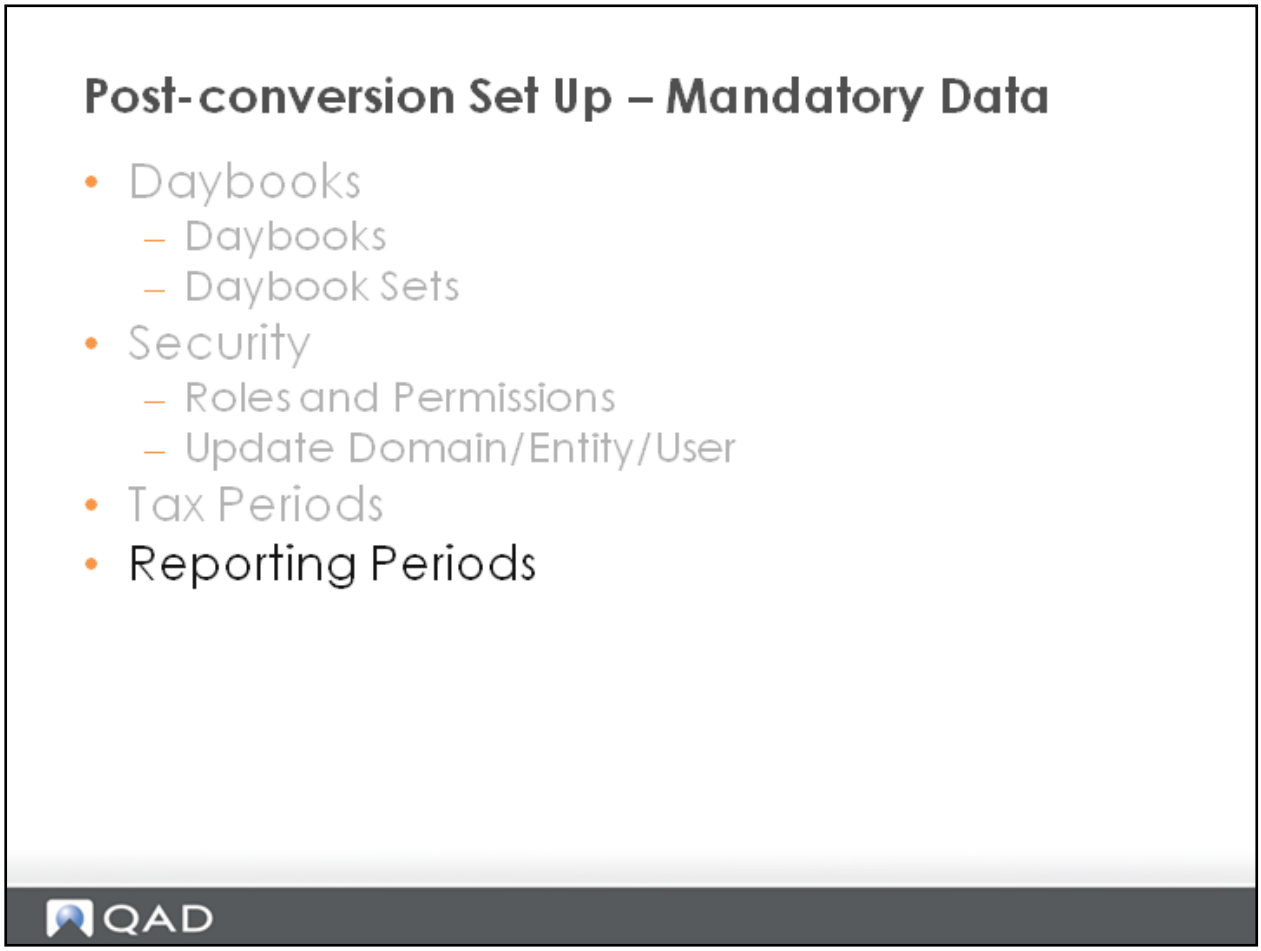
Post-conversion Set Up – Mandatory Data



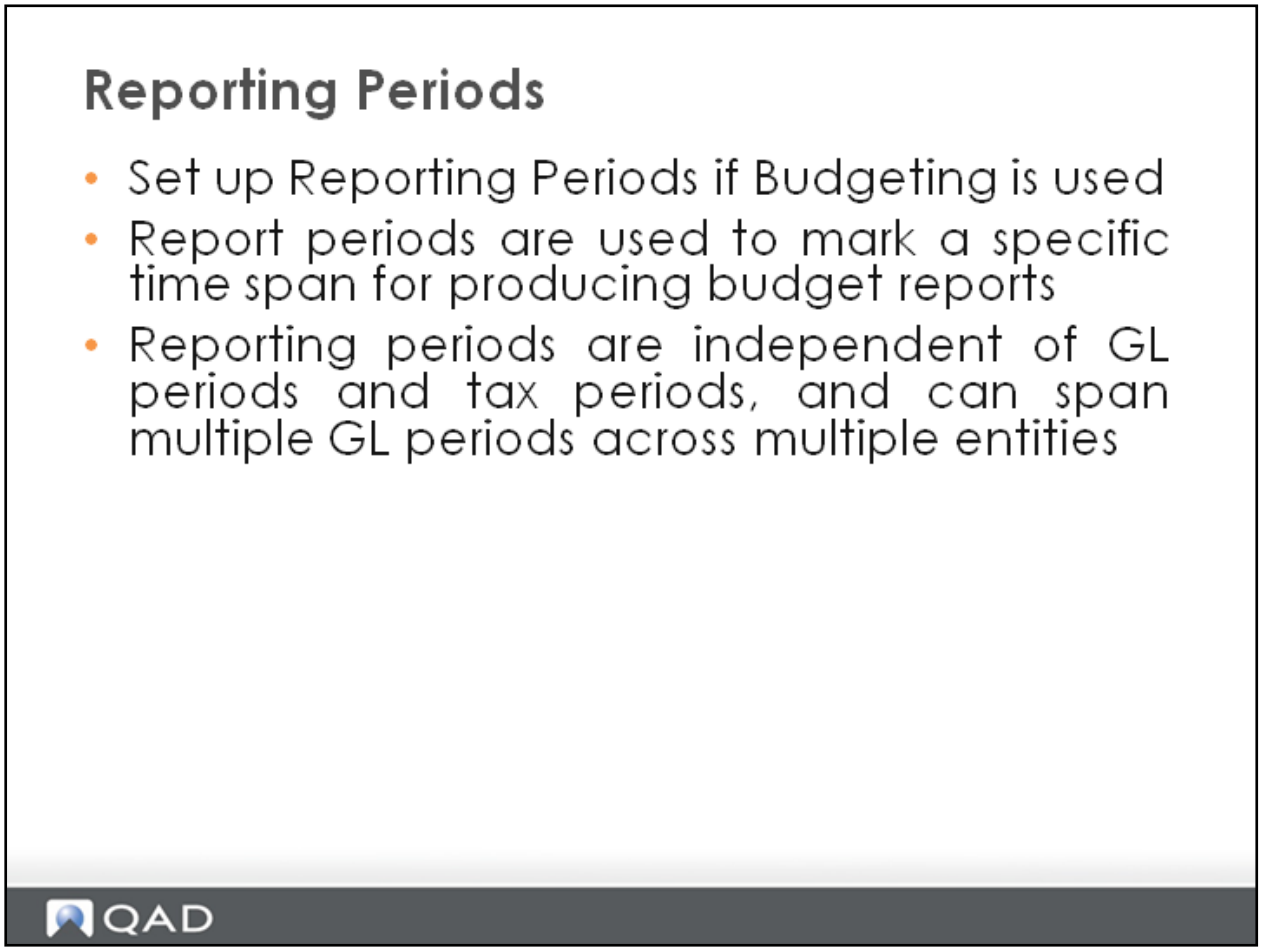
Tax Periods


Tax Periods
You must create Tax Periods from the GL calendar unless the Create Entity Tax Periods parameter for each domain in the Conversion Parameters Utility was set to Yes
QAD

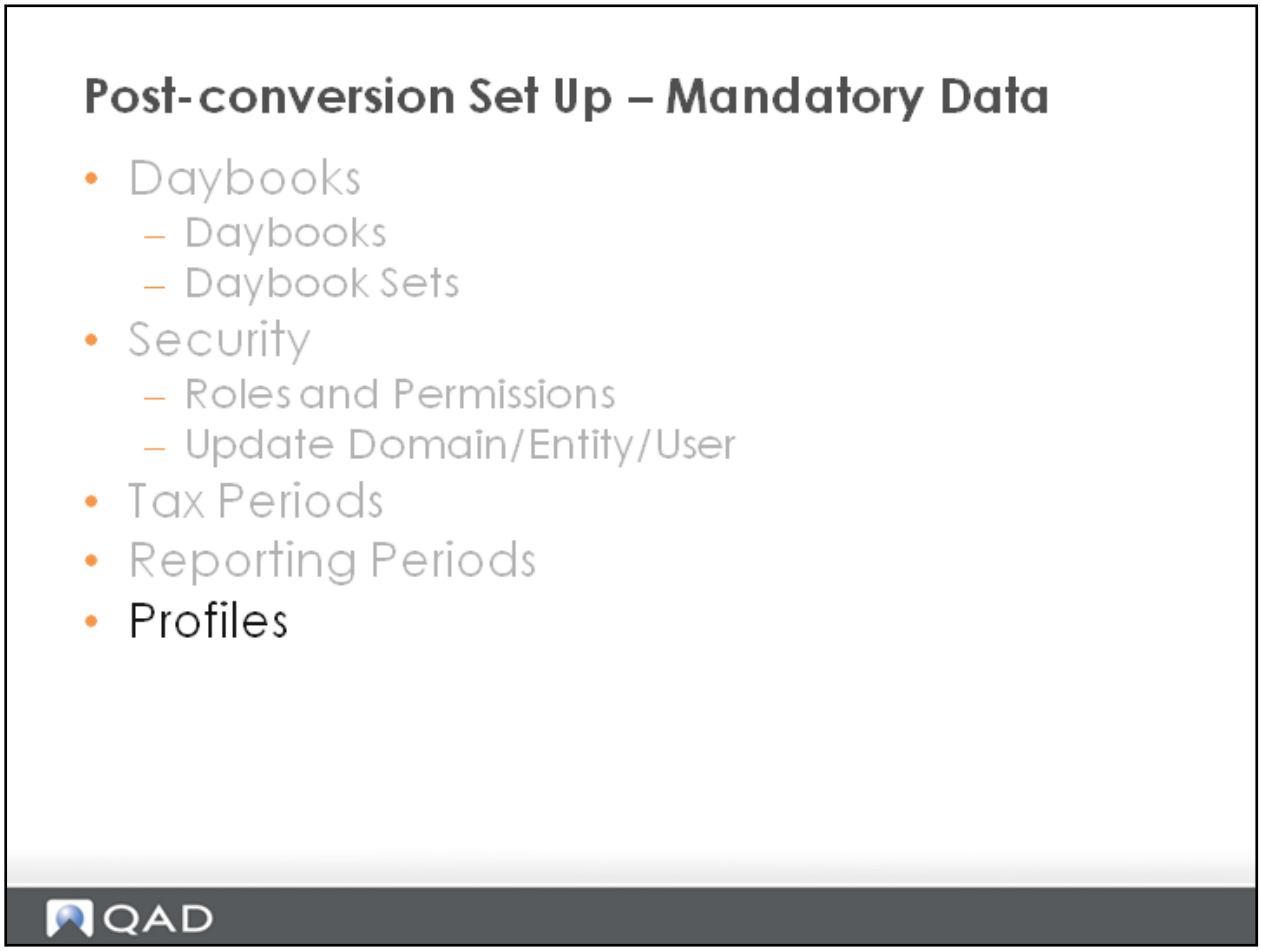
Post-conversion Set Up – Mandatory Data



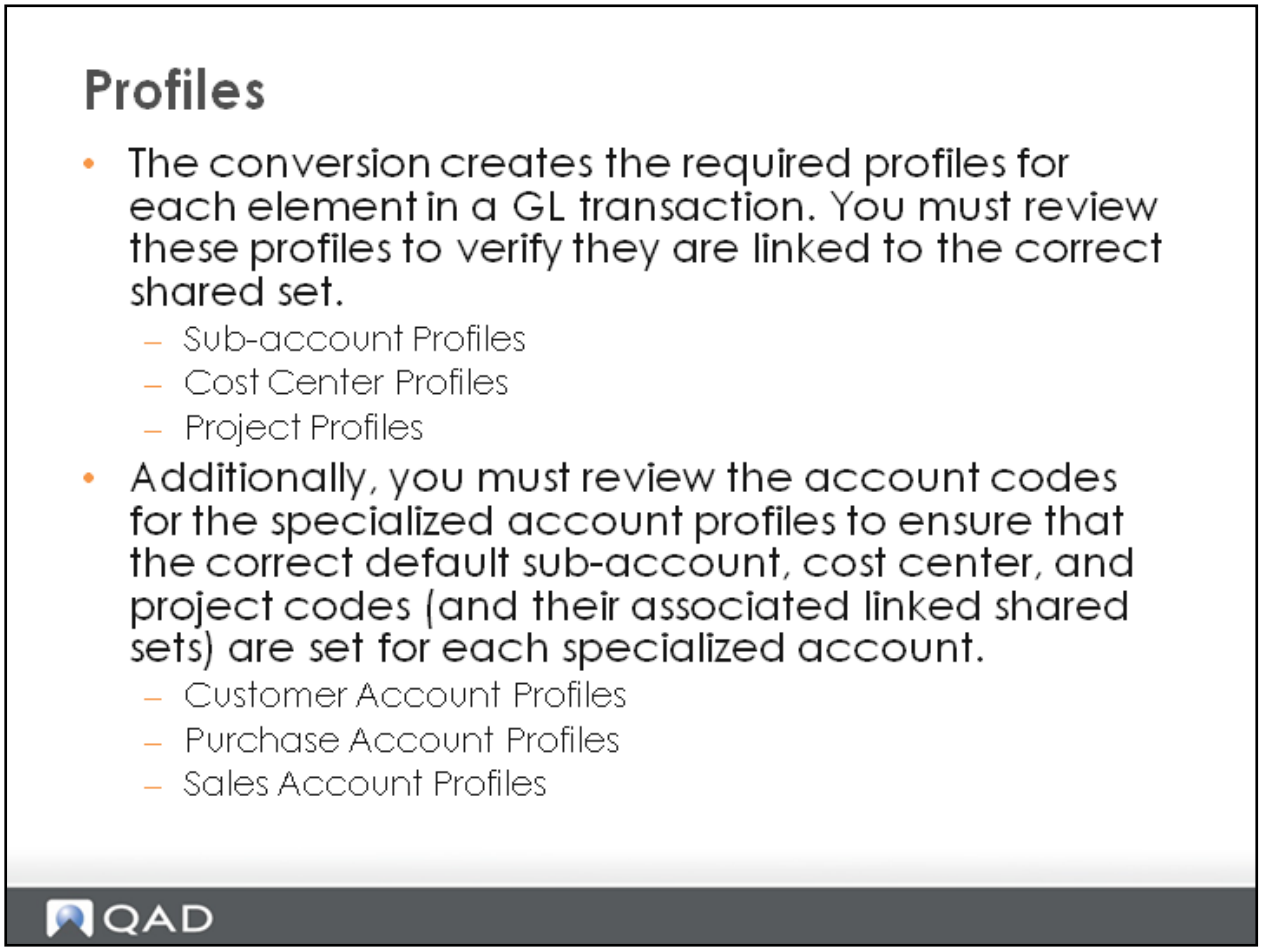
Reporting Periods



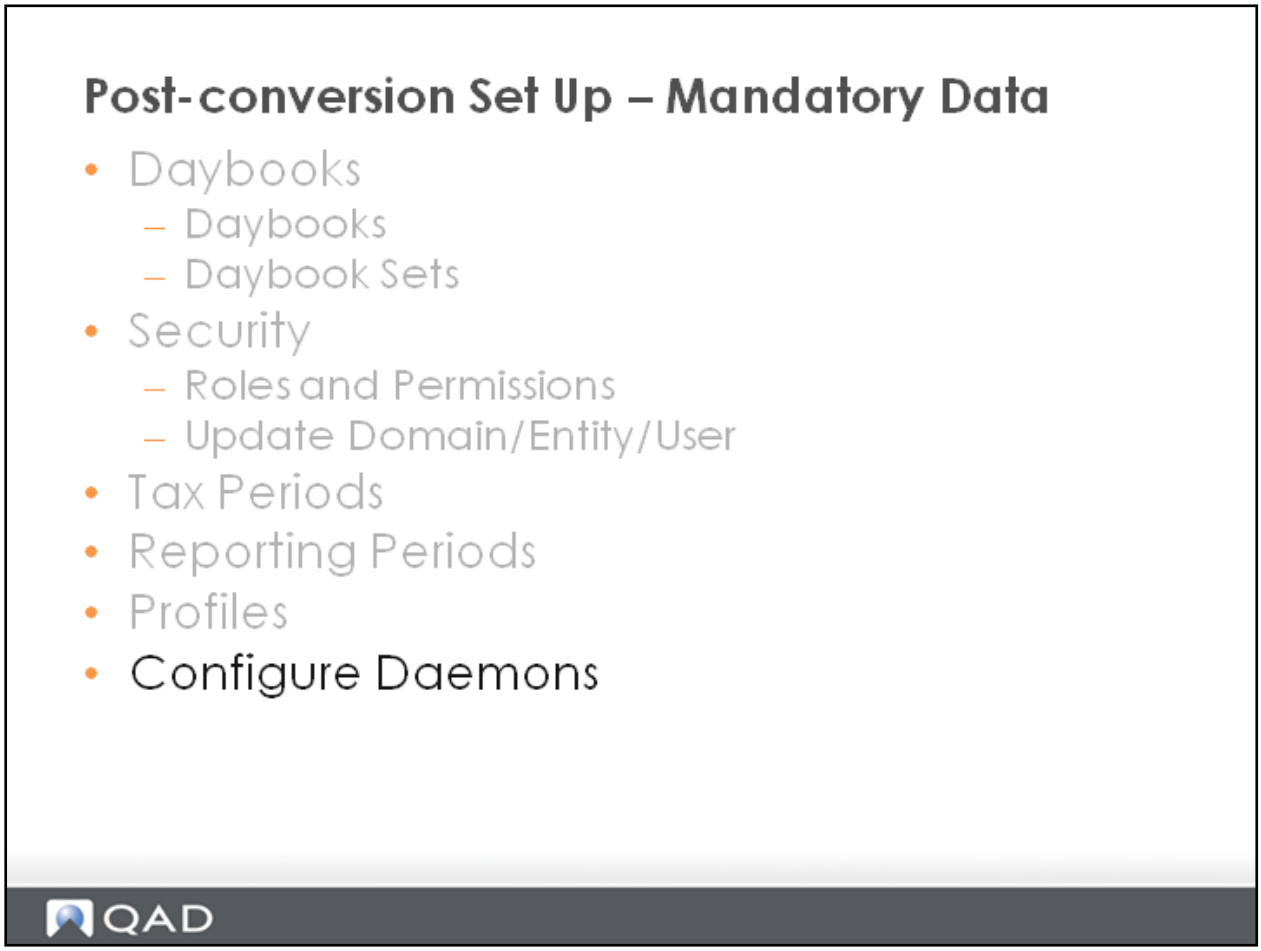
Post-conversion Set Up – Mandatory Data



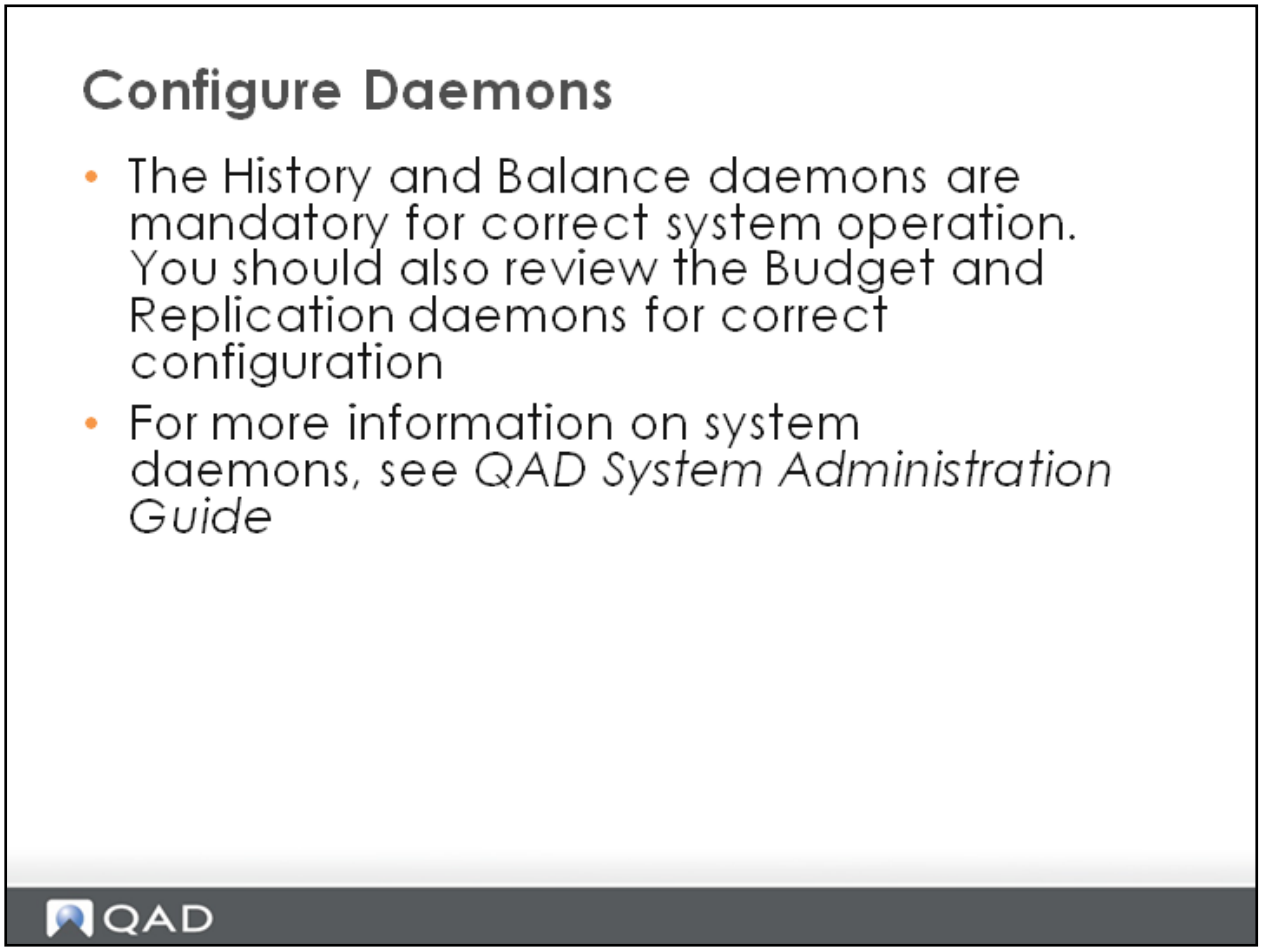
Profiles


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

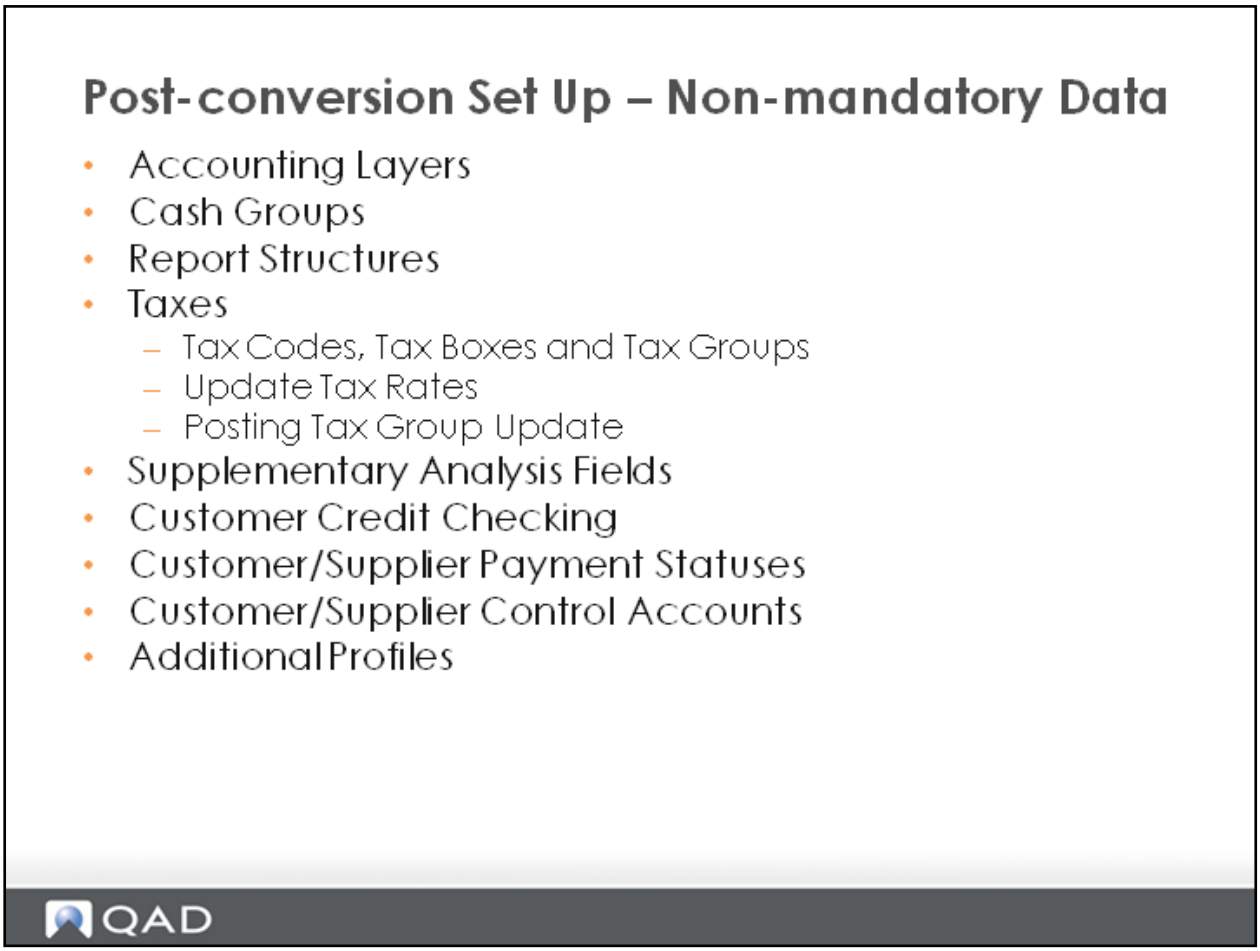
Post-conversion Set Up – Mandatory Data



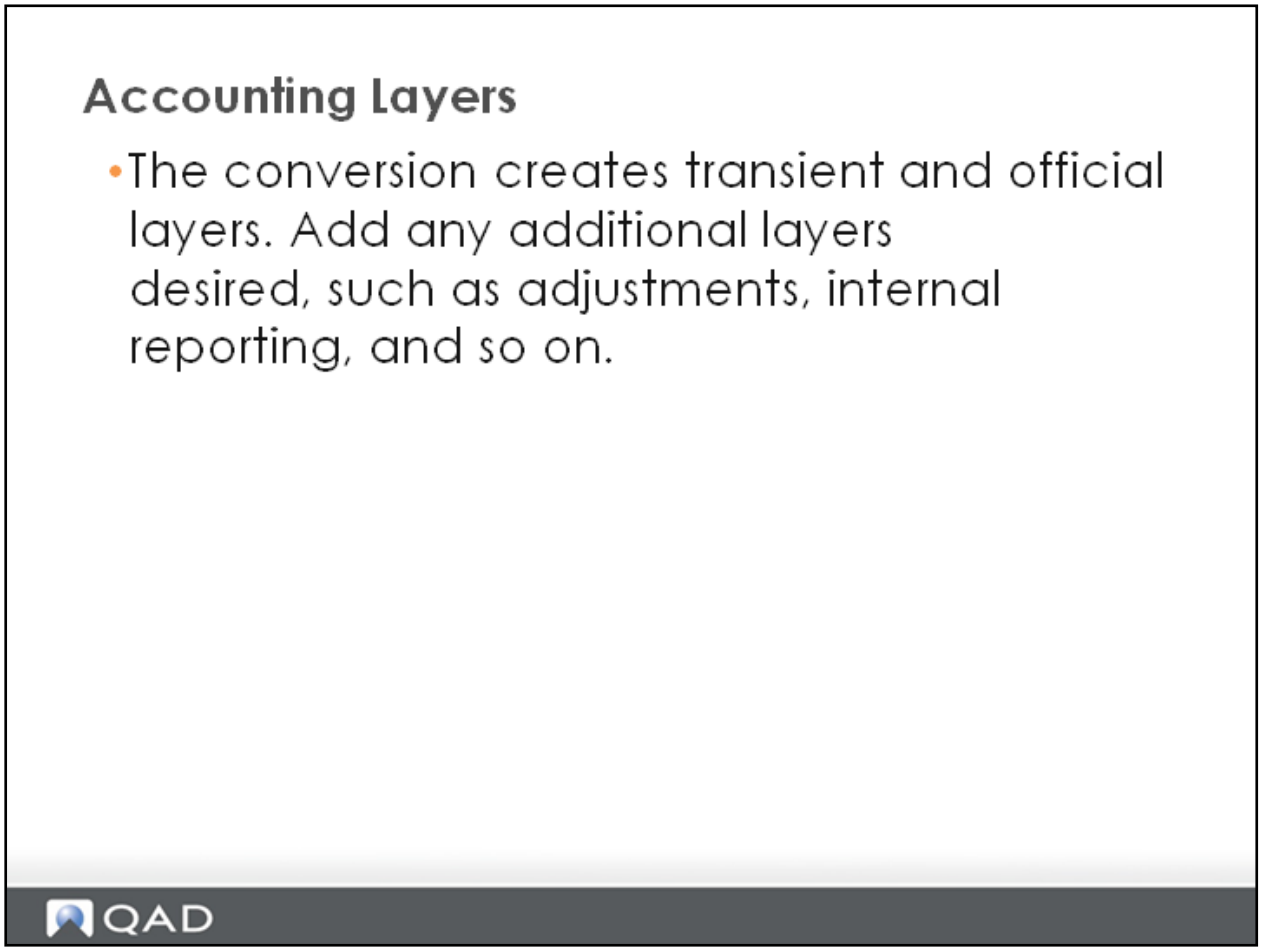
Configure Daemons



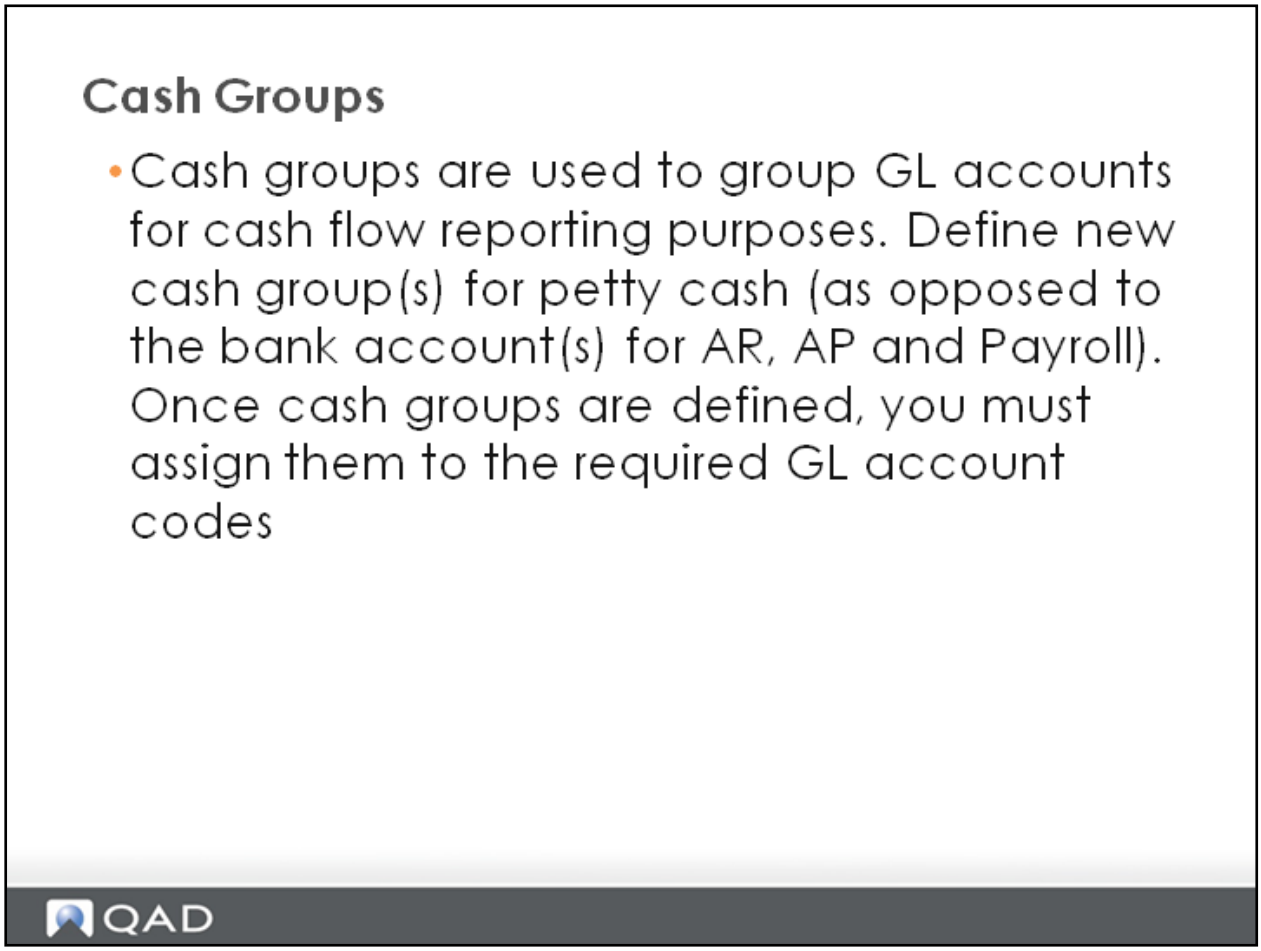
Post-conversion Set Up – Non-mandatory Data



Accounting Layers



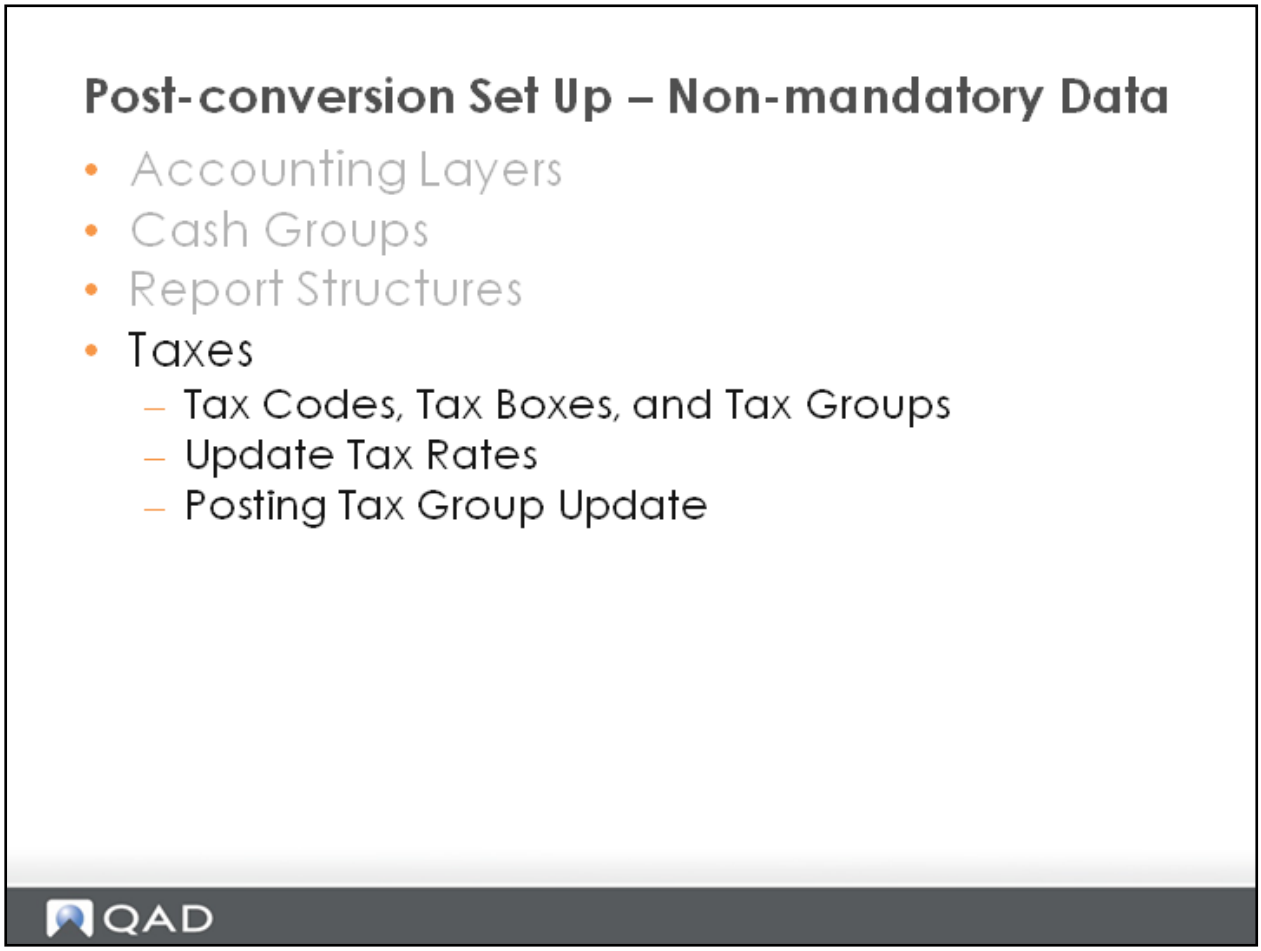
Cash Groups


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, you must assign them to the required GL account codes
QAD

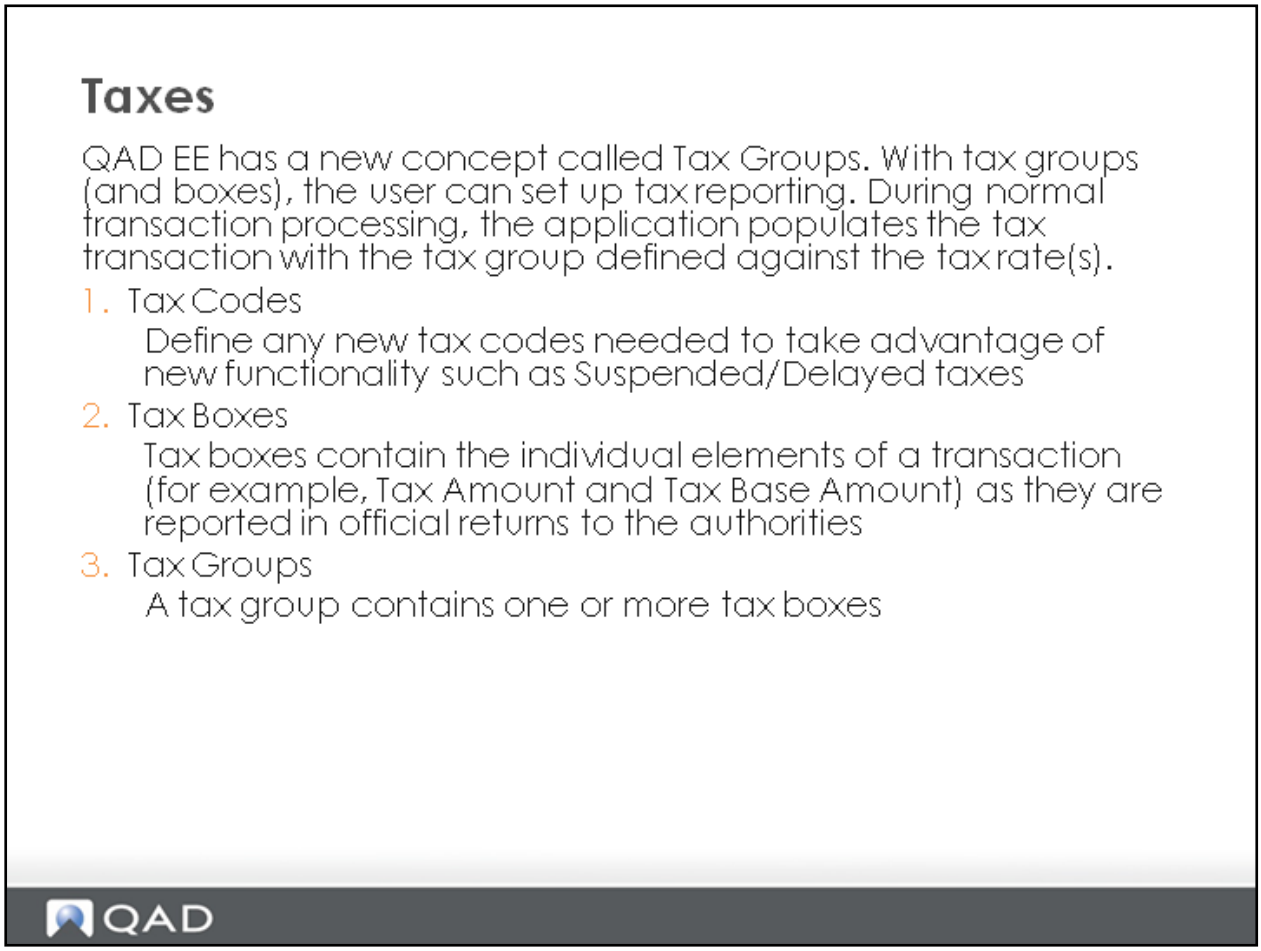
Report Structures



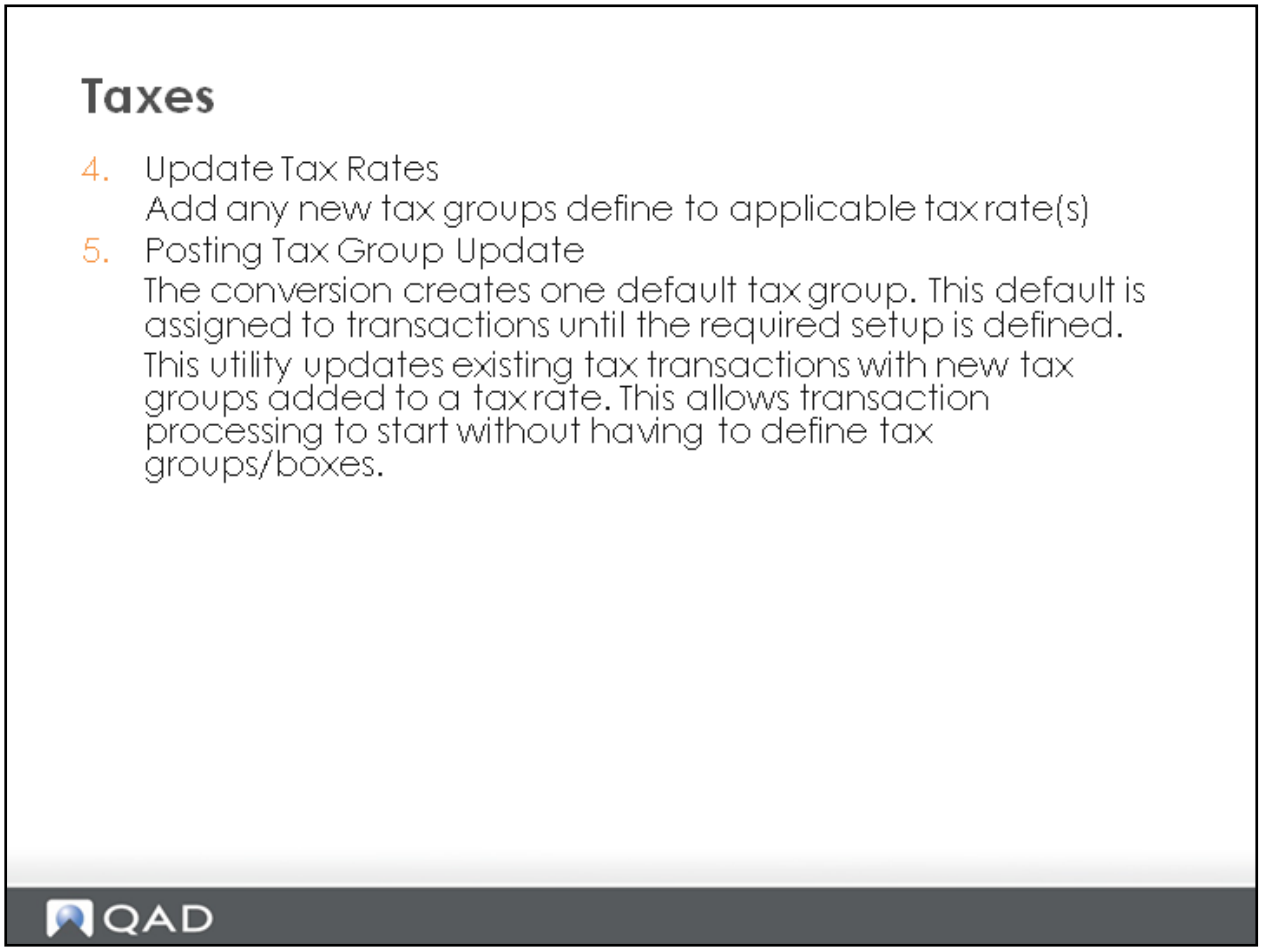
Post-conversion Set Up – Non-mandatory Data



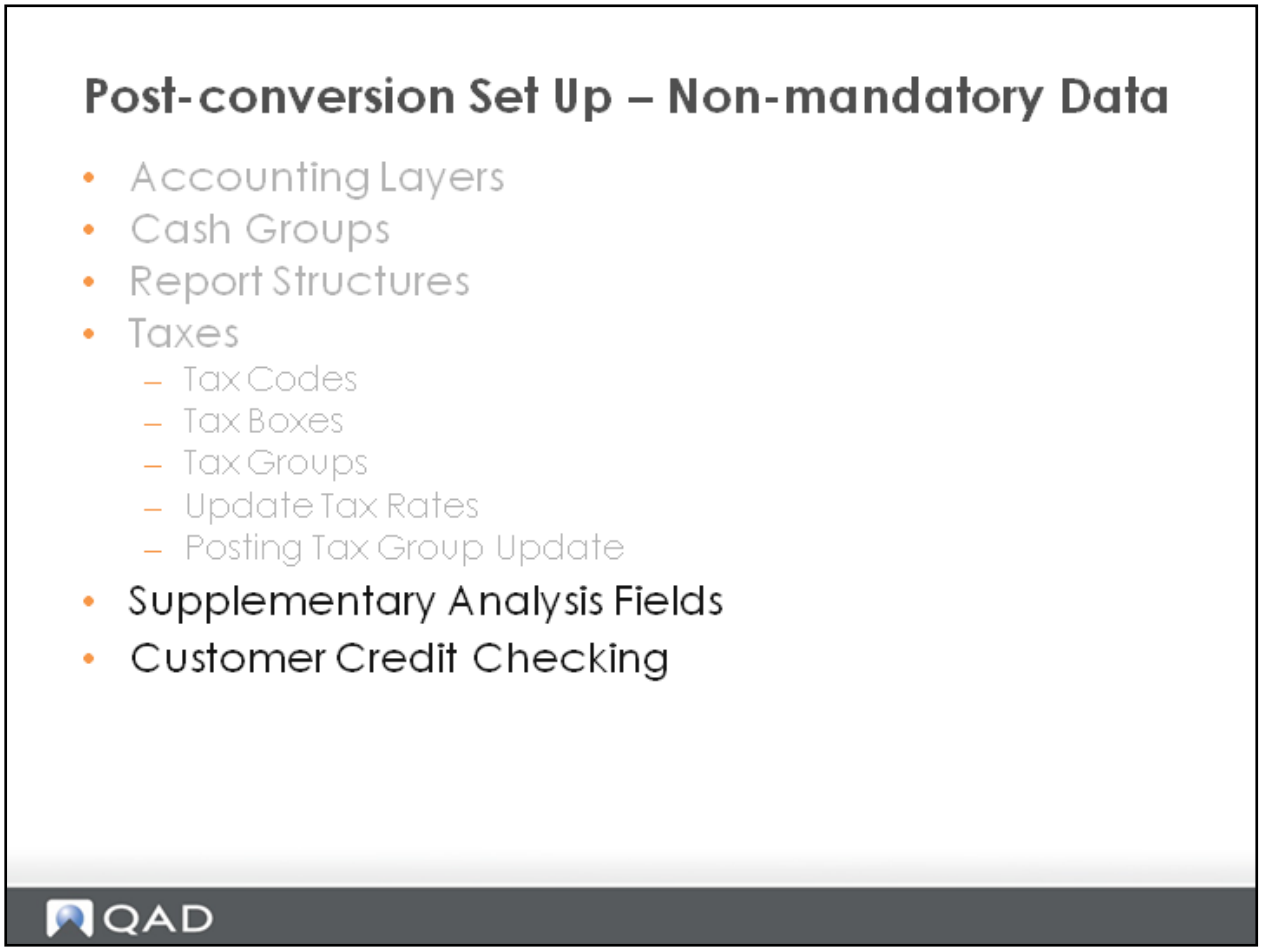
Taxes


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

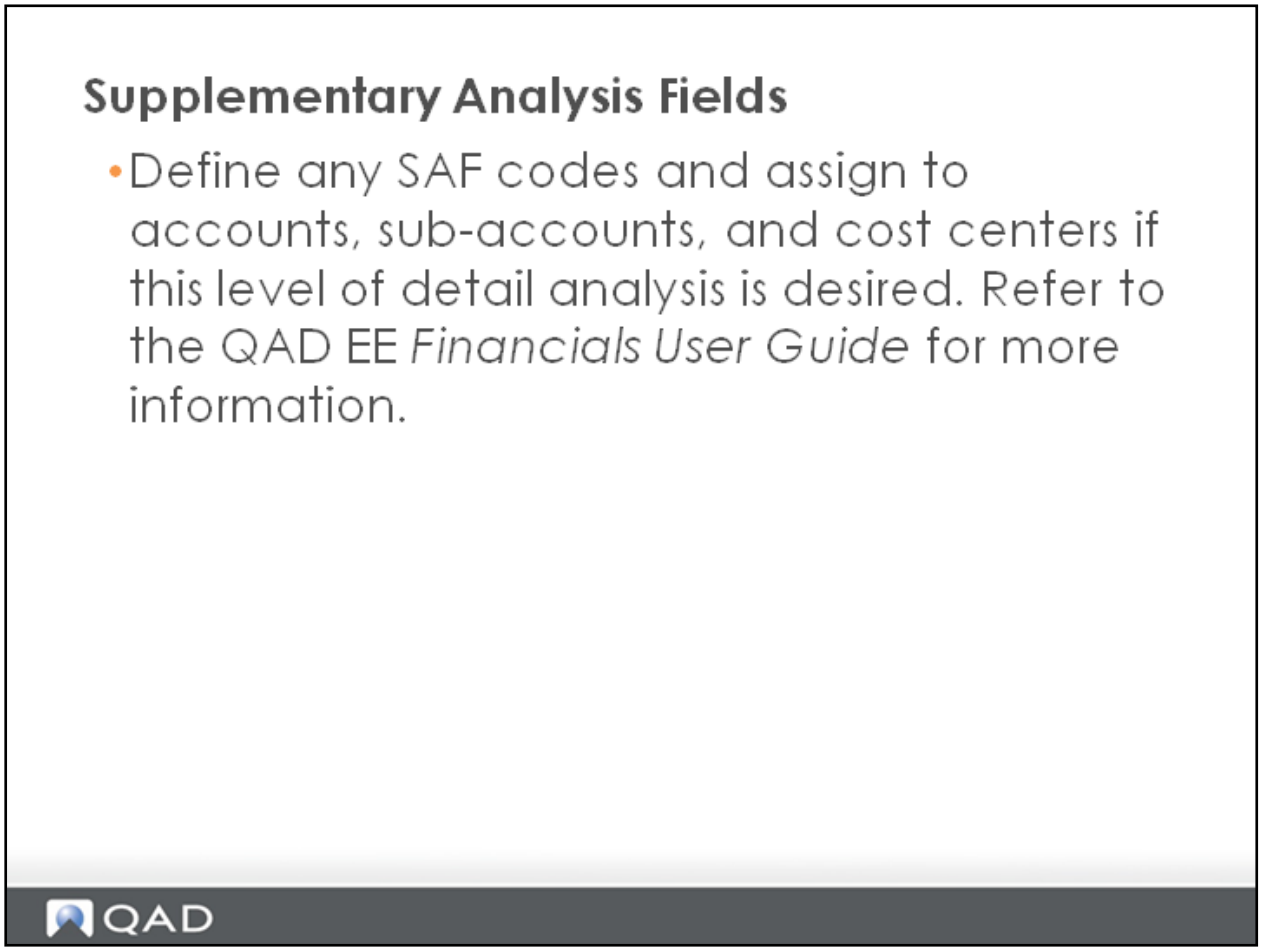
Taxes


Taxes
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 setup is defined.
This utility updates existing tax transactions with new tax groups added to a tax rate. This allows transaction processing to start without having to define tax groups/boxes.
QAD

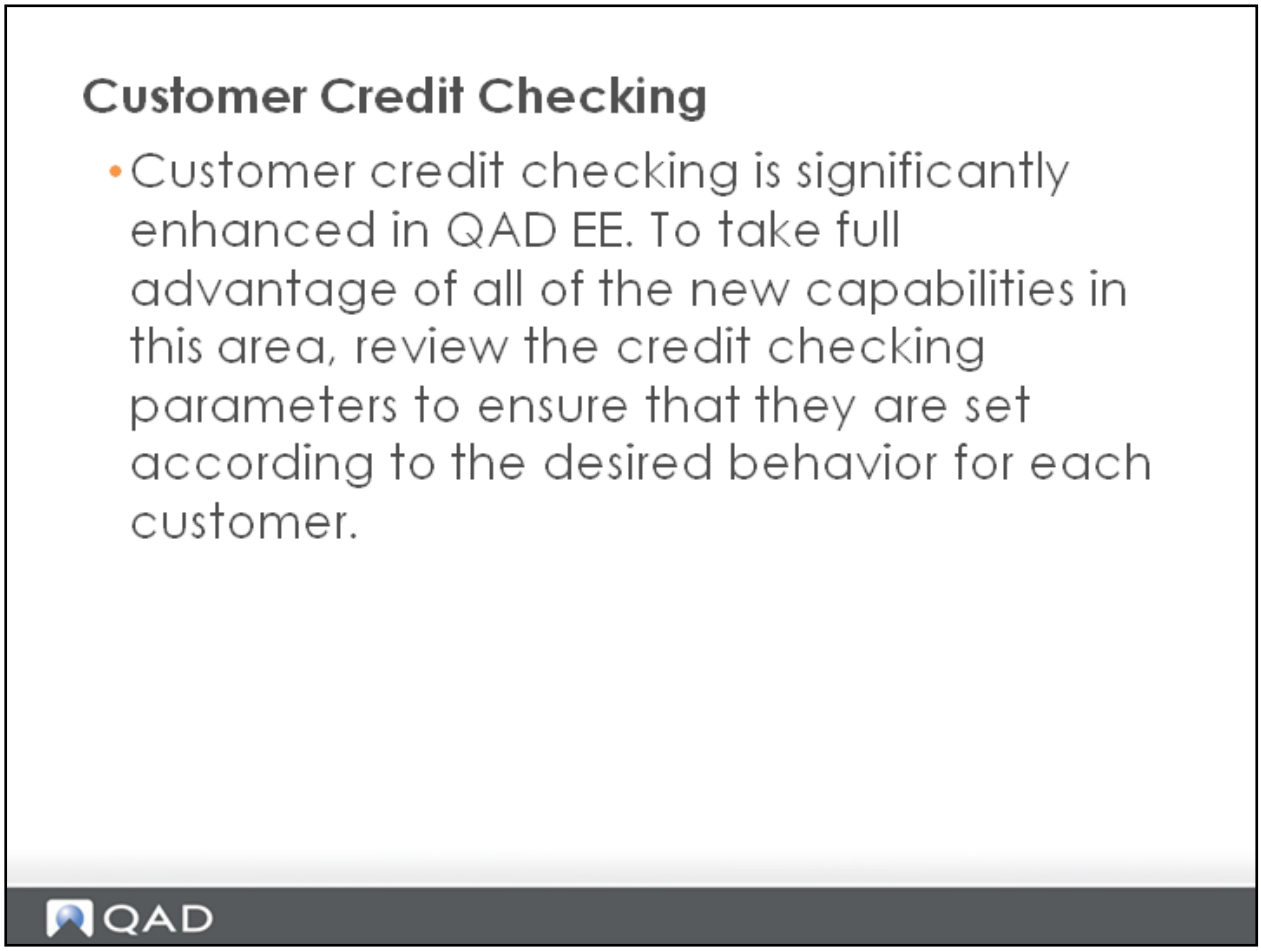
Post-conversion Set Up – Non-mandatory Data



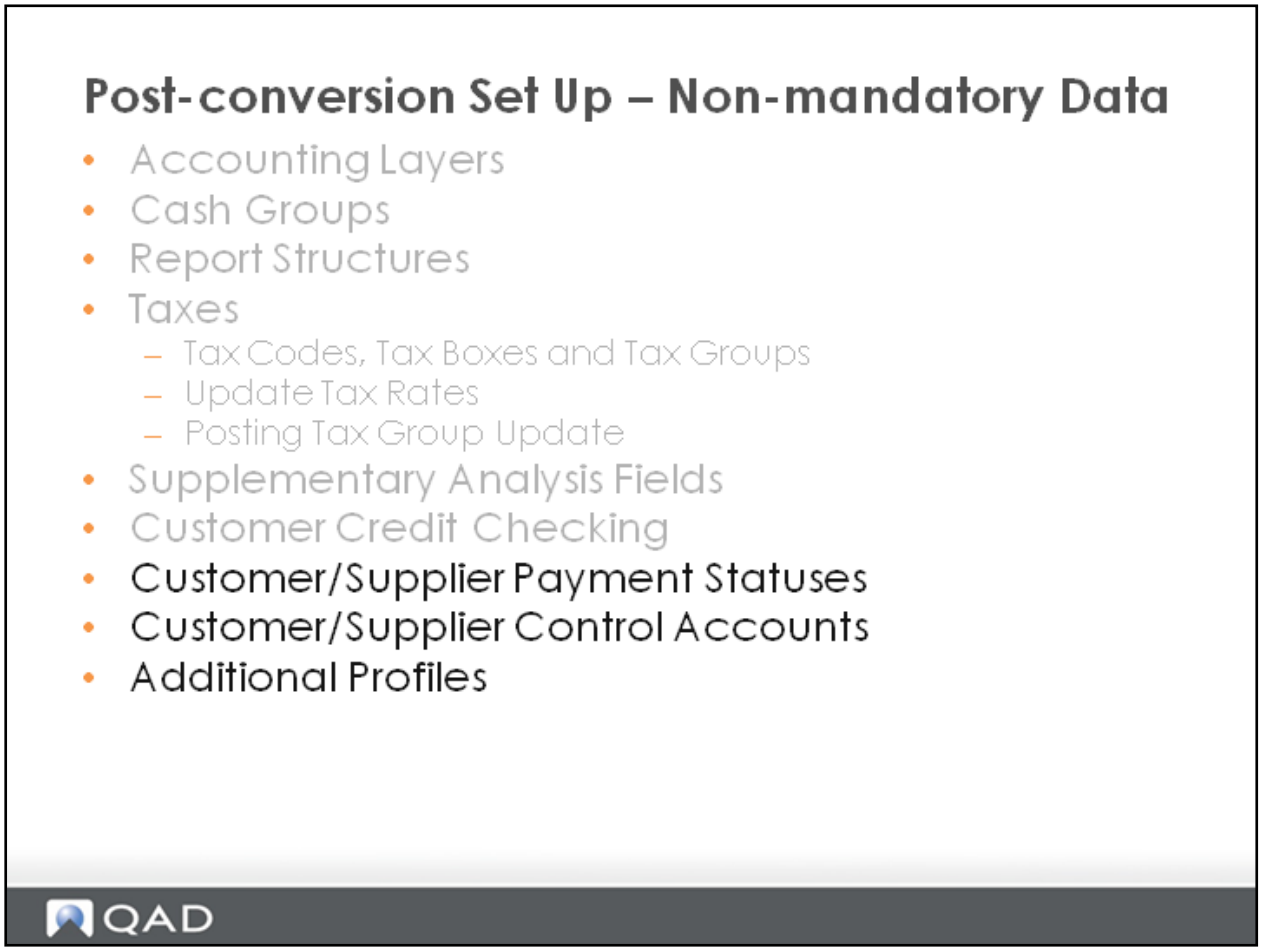
Supplementary Analysis Fields



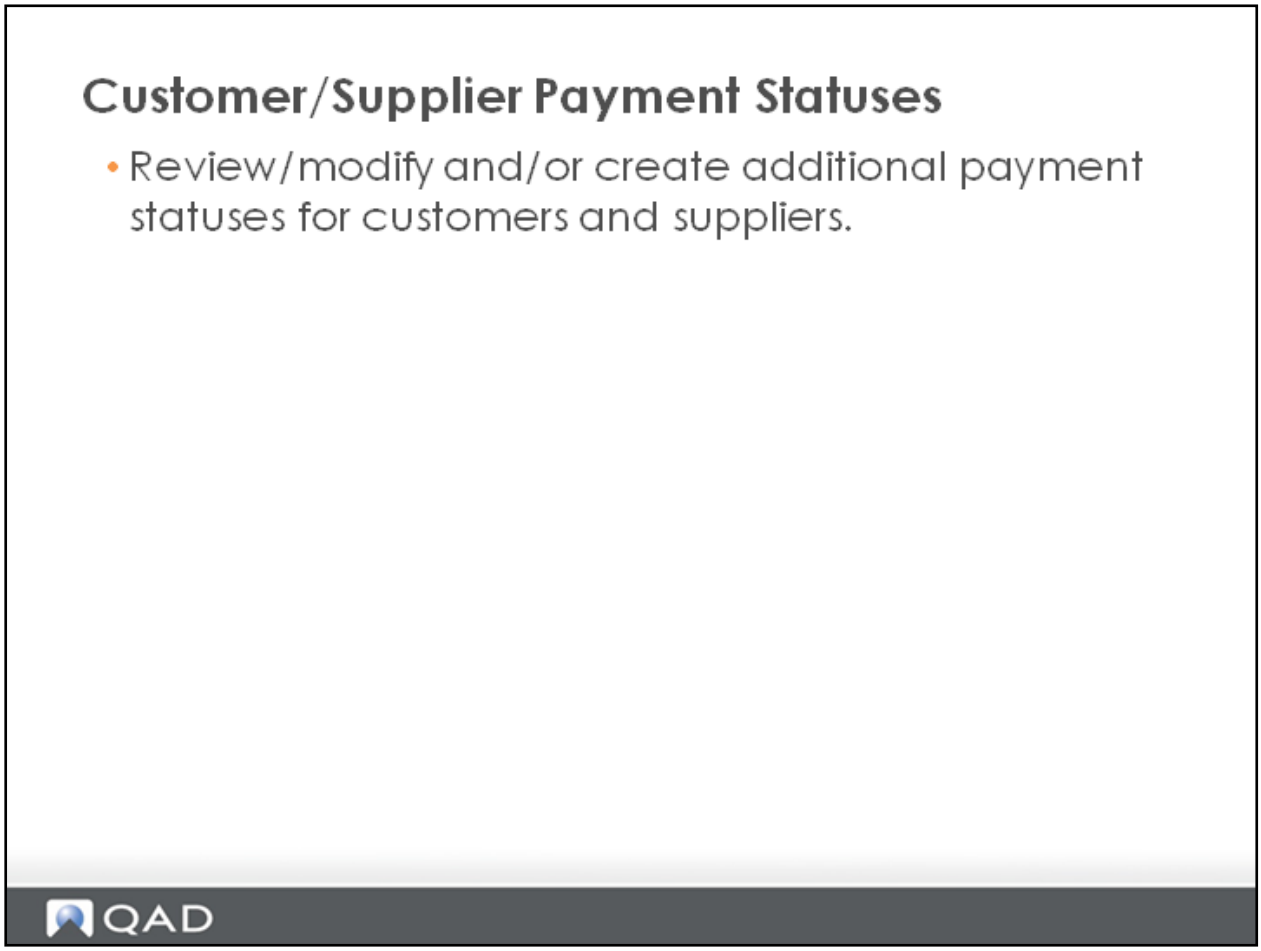
Customer Credit Checking



Post-conversion Set Up – Non-mandatory Data



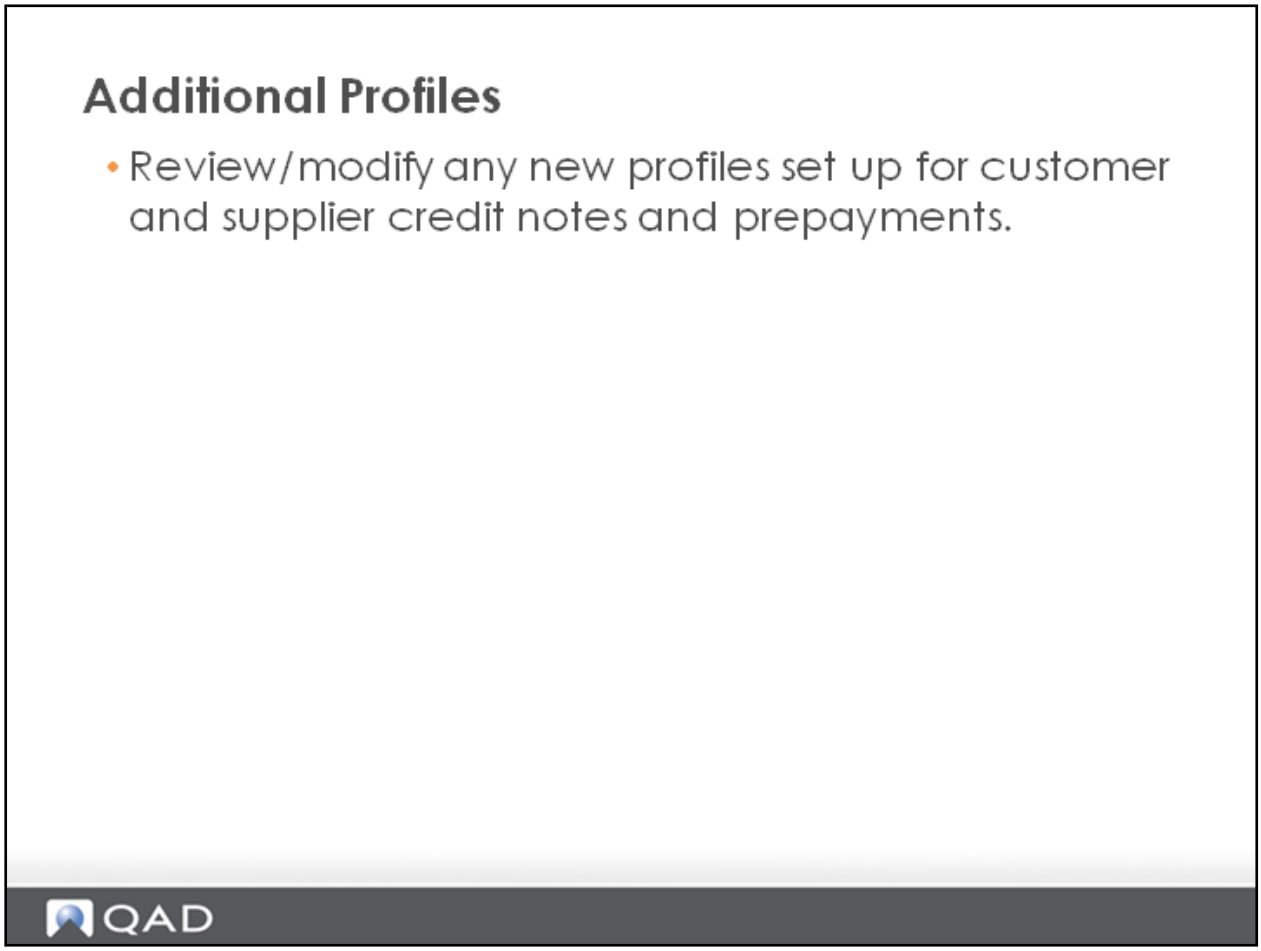
Customer/Supplier Payment Statuses



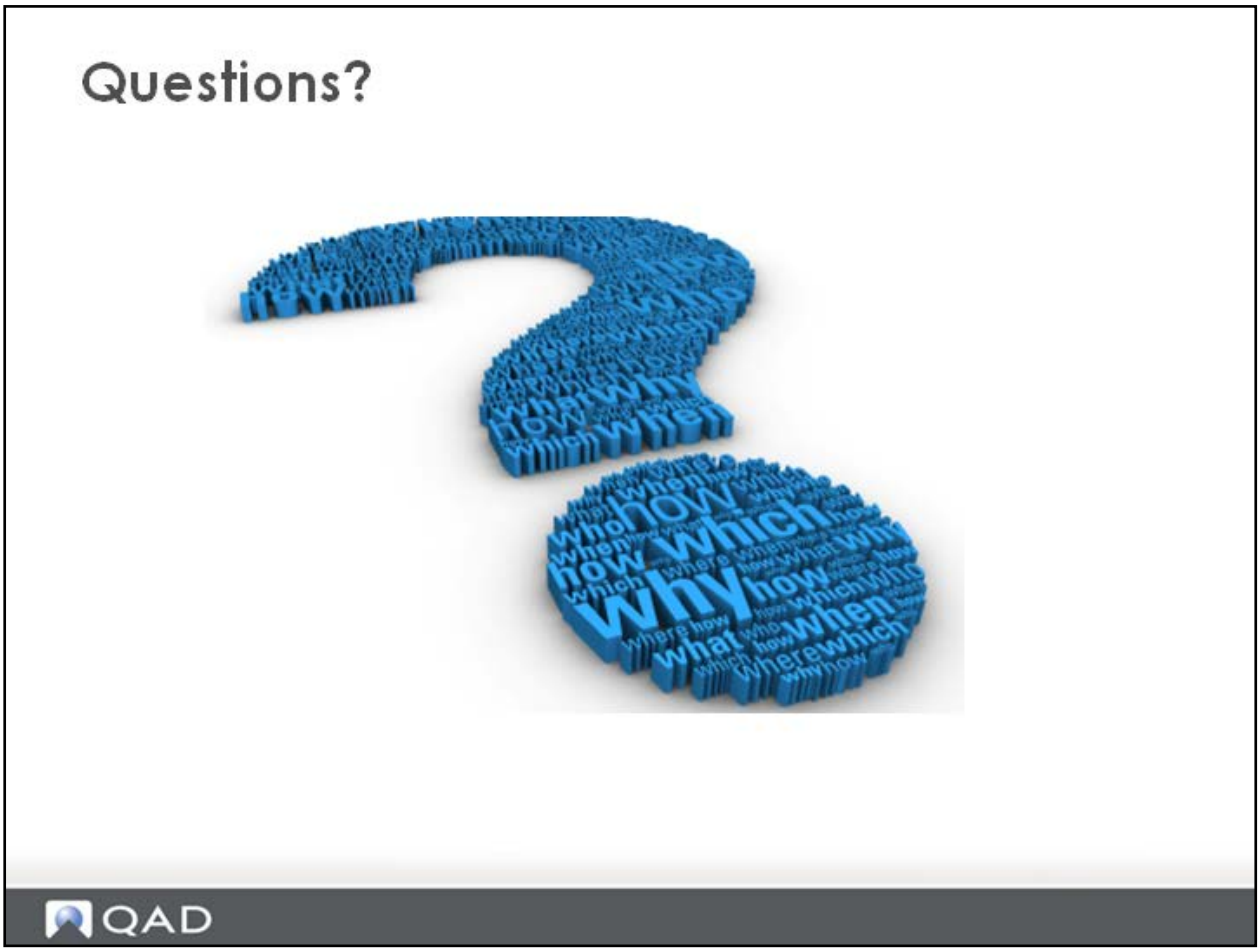
Customer/Supplier Control Accounts



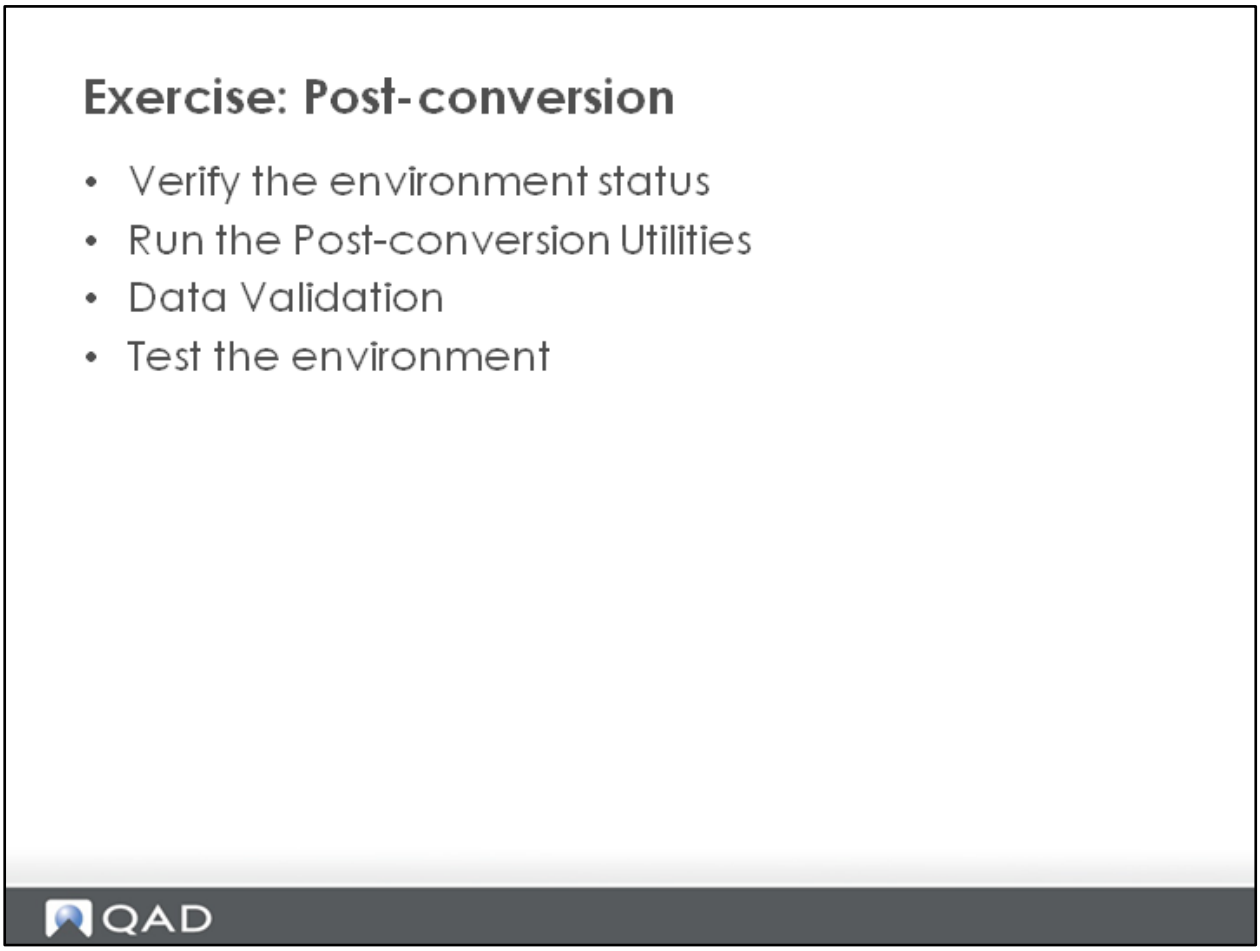
Additional Profiles



Questions?



Lab Exercise – Post Conversion



Note: All prerequisite activities should be carried out on the Linux server as user: mfg.

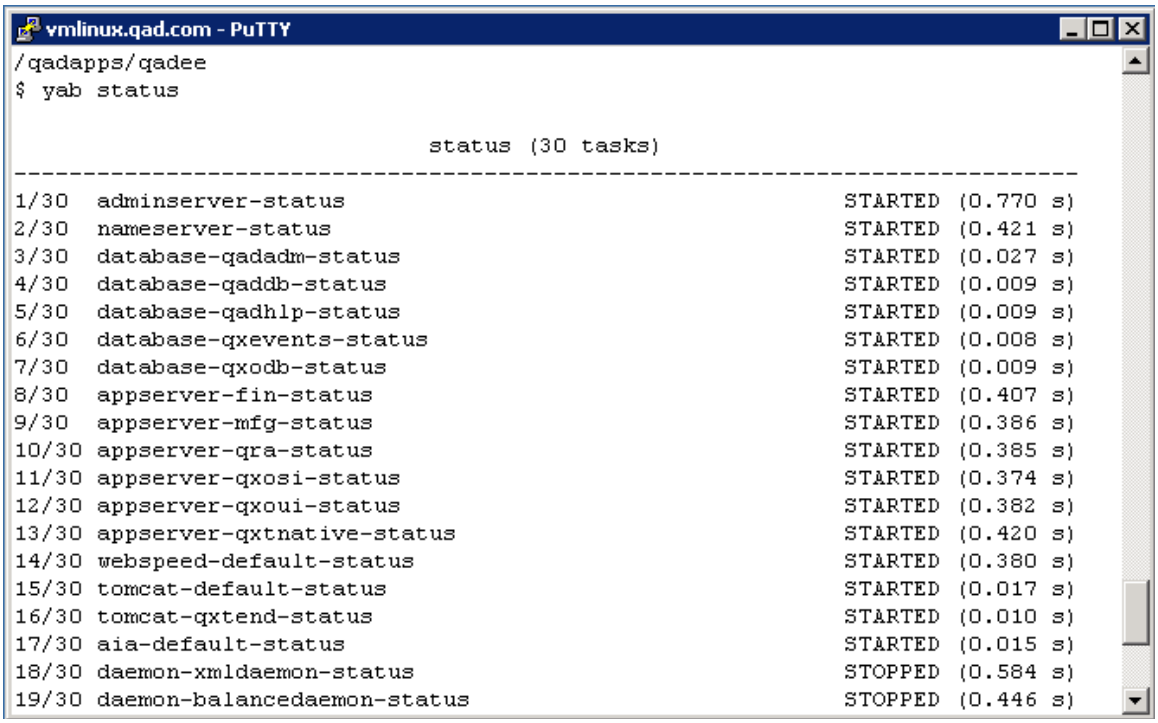
Login : mfg

Password : qad

Verify the Environment Status

Verify the status of the environment.

```
$ cd /qadapps/qadee
$ yab status
```



You should see that, with the exception of daemon process, all processes are “Started”.

Run the Post-Conversion Utilities

The following steps have been executed in the character client (on the Linux server). Optionally, you can use QAD 2016 EE .NET UI (Windows server).

Log in to QAD2016 EE character client:

```
$ cd /qadapps/qadee/scripts
$ ./client-us.sh
```

User: mfg

Password: <blank>

Log in to the QAD2016 EE .NET UI (optional):

Locate the “QAD Enterprise Applications” shortcut on the Desktop

User: mfg

Password: <blank>

Fixed Assets Migration Utility (32.25.2)

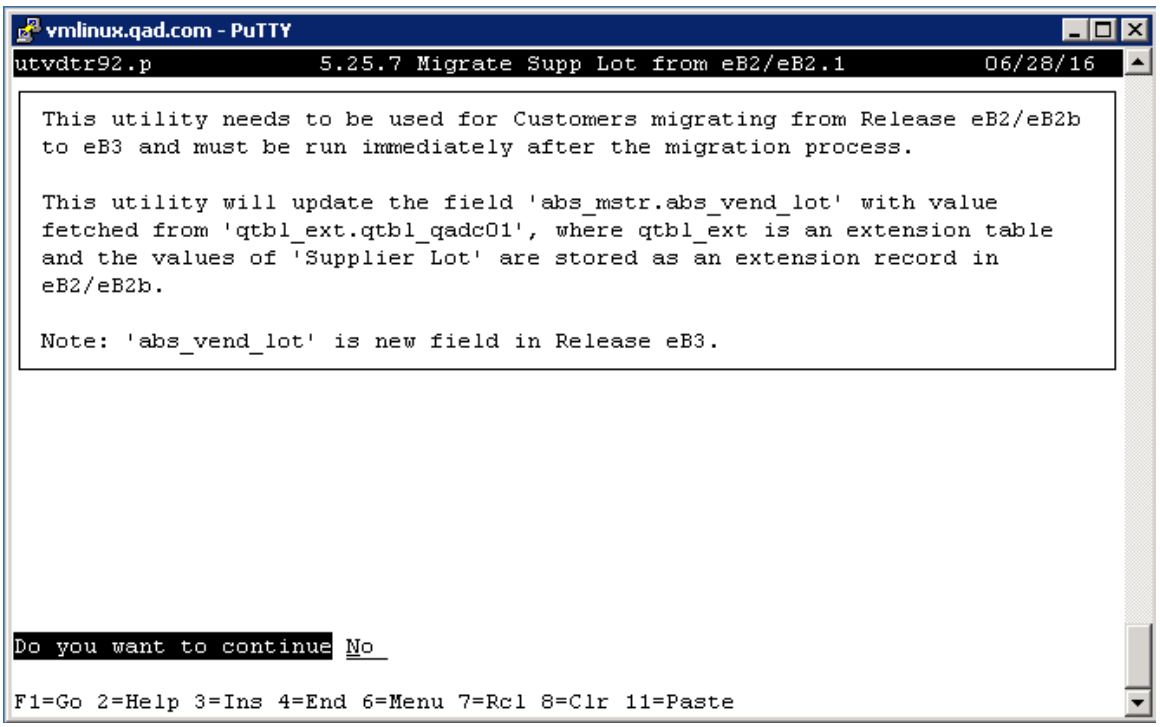
For this exercise, the source database for conversion is eB2.1 SP5 (QAD2007 SE). We do not need to run the Fixed Asset Migration Utility.

Table Extension Domain Conversions (5.25.7)

For this exercise, the source database for conversion is eB2.1 SP5 so we need to run menu option 5.25.7 Migrate Supp Lot from eB2/eB2.1.

Note: If you are converting from eB2.1 SP6 or later, you would use menu 5.25.8 (utvdt92b.p).

1. Go to menu option ‘5.25.7 Migrate Supp Lot from eB2/eB2.1’.
2. Select ‘yes’ to continue.

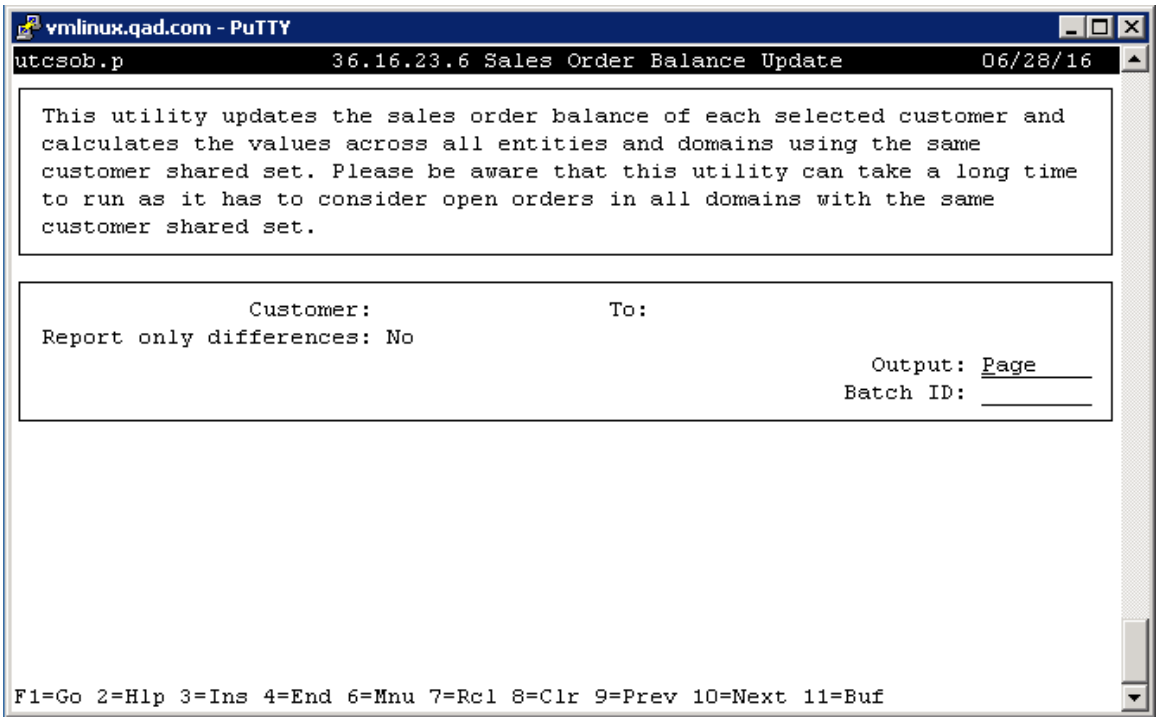


Note: This utility does not require any input parameters and does not output any report data.

Sales Order Balance Update (36.16.23.6)

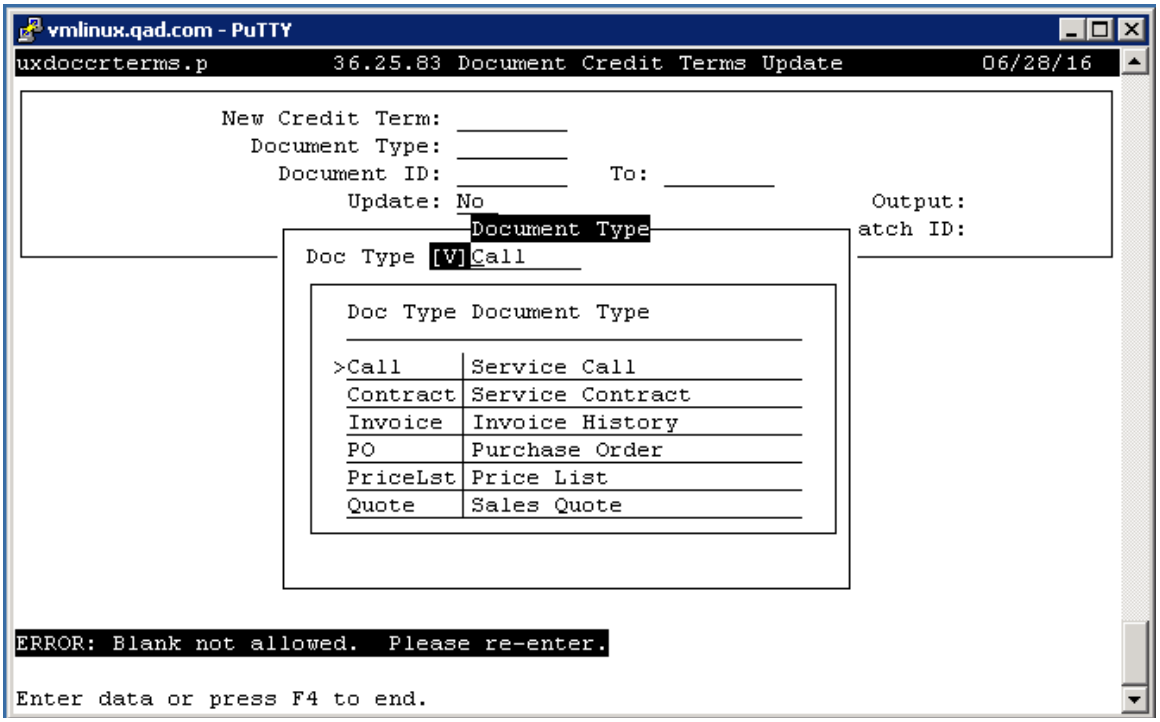
Run the Sales Order Balance Update utility with the following settings:

1. Leave the ‘Customer’ and ‘To’ fields blank (all customers).
2. The ‘Report only differences’ option only impacts the volume of content produced by the report. Select your preferred option.



Document Credit Terms Update (36.25.83)

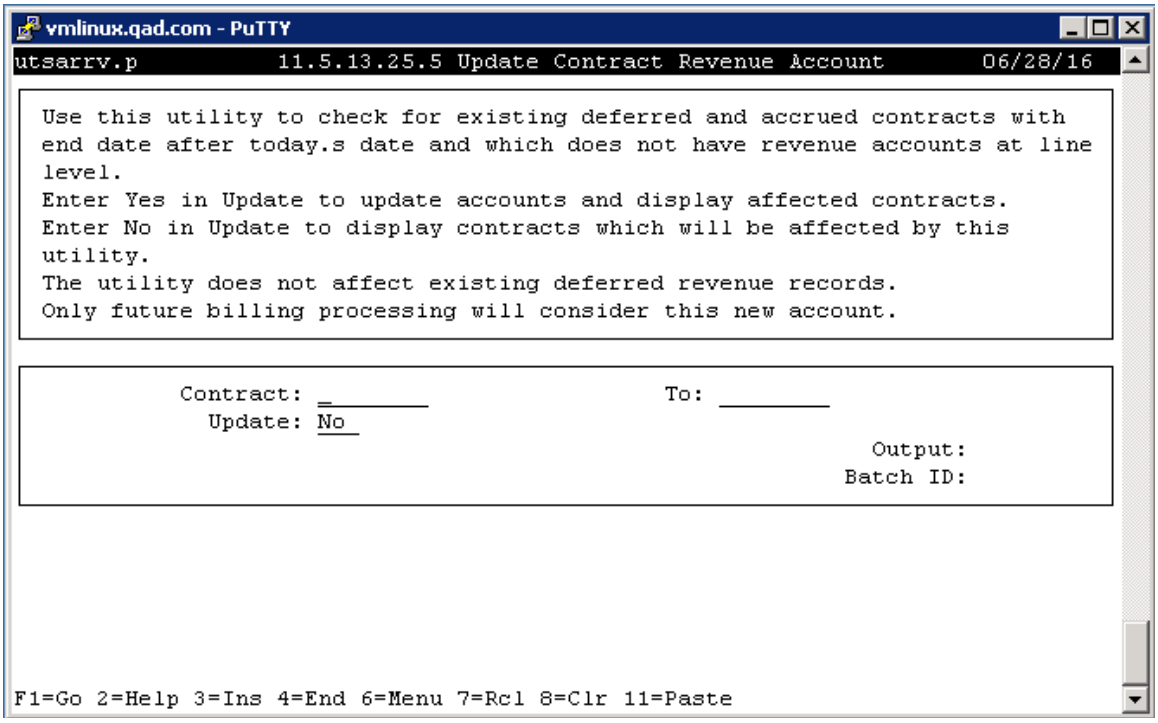
This utility updates <blank> or invalid Credit Terms codes against various documents. Run this utility for each document type as shown below.



Note: For this exercise, no further action is required as the database has no invalid credit terms codes.

Update Contract Revenue Account (11.5.13.25.5)

This utility moves Deferred and Accrued Revenue accounts for Service Contracts.



Note: For this exercise, you do not need to run the utility as the database has no Service Contract records.

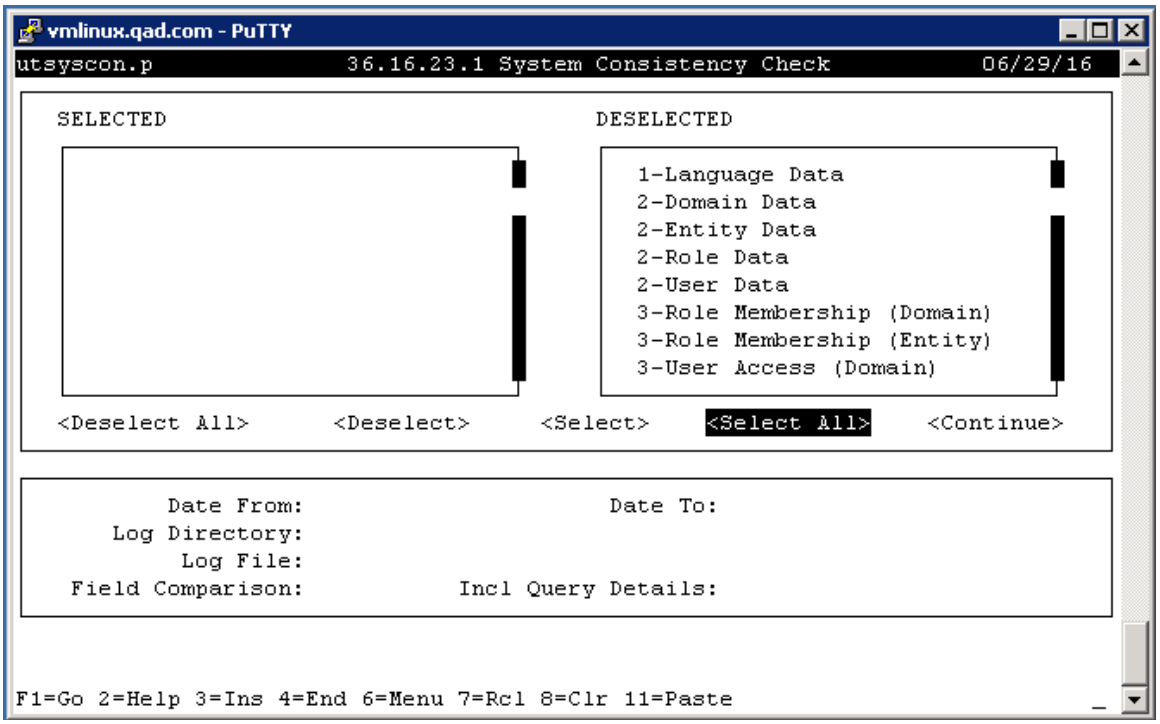
Data Validation

System Consistency Check (36.16.23.1)

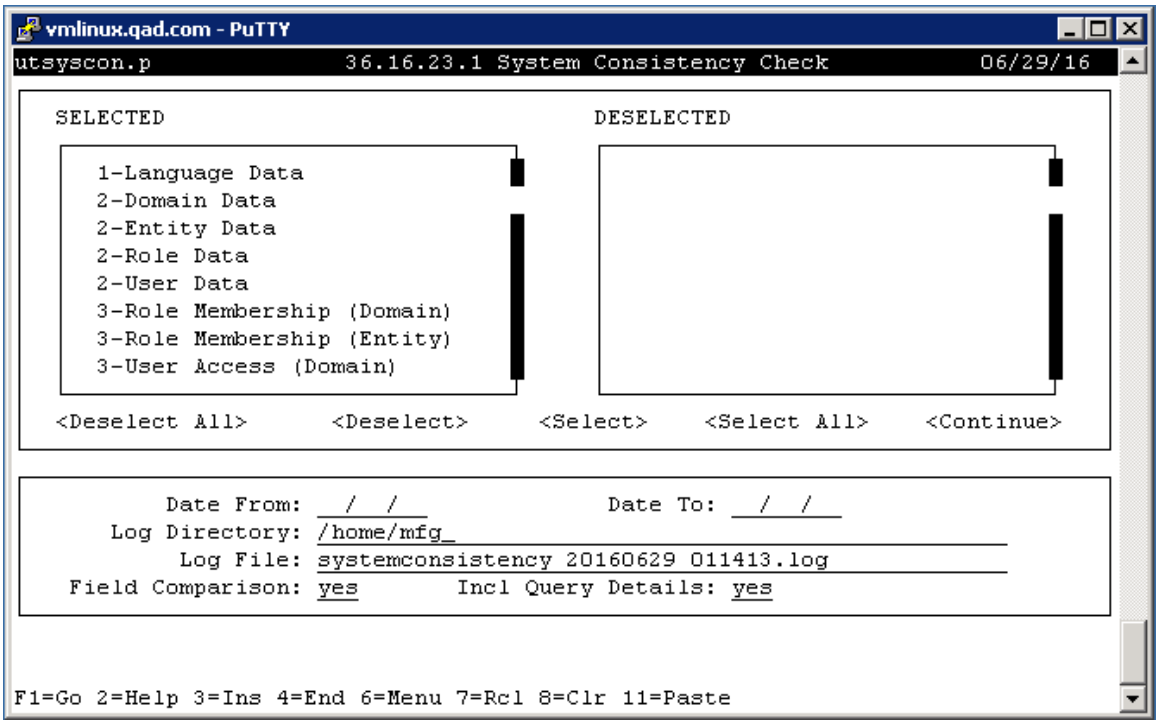
The System Consistency Check ensures that master data, which is maintained in the Financials and replicated to the operational modules, remains consistent. For example, if there is a record in the operational part of the system, there must be a record in the Financials and the other way around. This check ensures that the conversion created new records in the Financials for every master record in the original version.

Run the System Consistency Check report with the following settings:

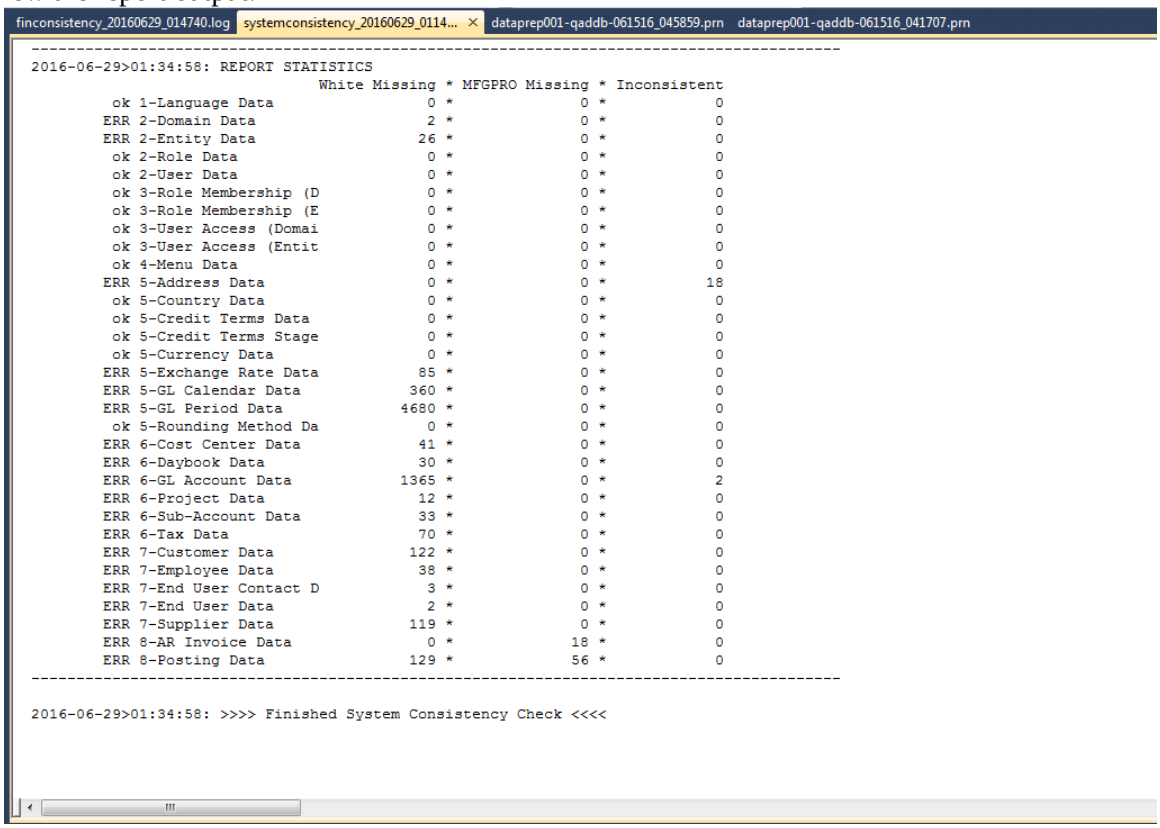
1. ‘Select All’ records.



2. Select ‘Continue’.



3. Set the 'Log Directory' to `/home/mfg`.
4. Run the report.
5. Review the report output.



A summary page can be found at the end of the report. Review the summary page and then refer back to the detail sections of the report where errors are reported (“ERR”).

The System Consistency Check highlights inconsistencies between the operational and financial data. However, please note that some inconsistencies may be expected depending on the source database being converted.

For example, in the database used for this test conversion, ‘Domain 3’ and ‘Domain 4’ are ‘inactive’ domains. Because the conversion does not fully convert data for inactive domains, data inconsistencies related to those domains are to be expected.

Where errors are reported, you should analyze the errors and the database to ensure that you understand why the error is being reported.

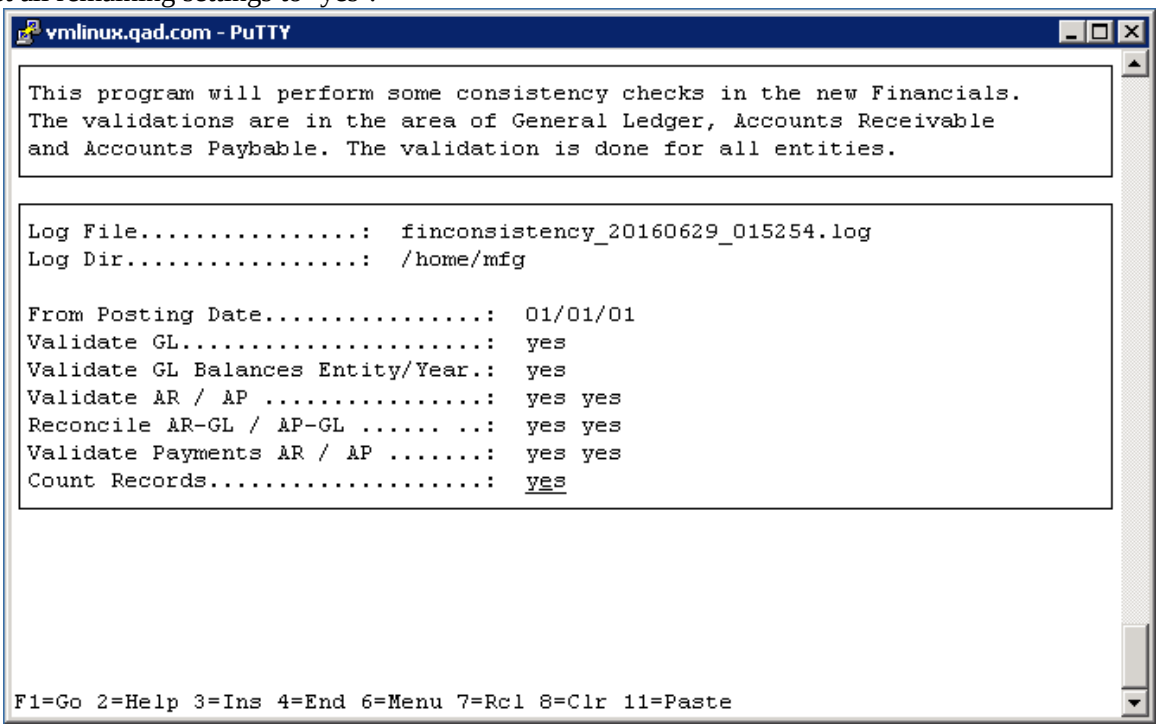
6. Note the processing time in the Processing Time Table.

Financials Consistency Check (utfincon.p)

The Financials Consistency Check validates the consistency, completeness and integrity of the converted financial data. It also confirms that all table structures in the new Financials are in order and that their links are correct. This report validates some balances (AR, AP) to ensure that transactions balance across entities with regards to debits and credits and that the sub-ledgers balance to GL.

Run the Financials Consistency Check report with the following settings:

1. Set the ‘Log Directory’ to `/home/mfg`.
2. Set ‘From Posting Date’ to 01/01/01.
3. Set all remaining settings to ‘yes’.

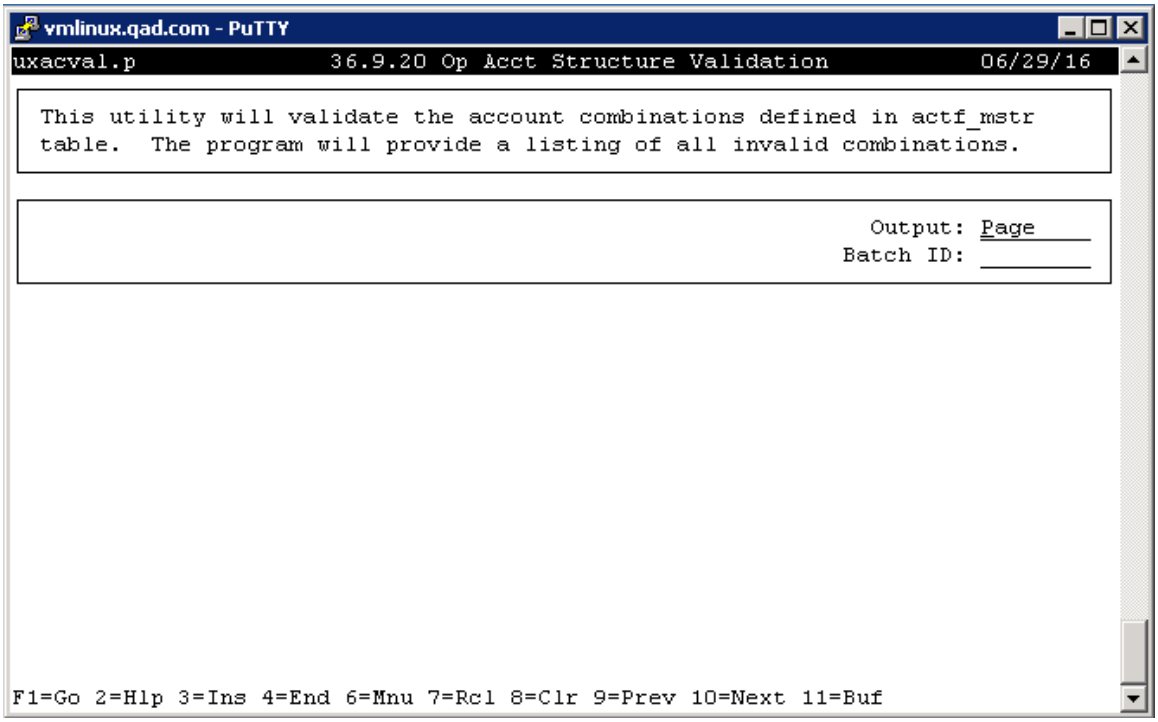


4. Review the report output.

5. Note the processing time in the Processing Time Table.

Operational Account Structure (36.9.20)

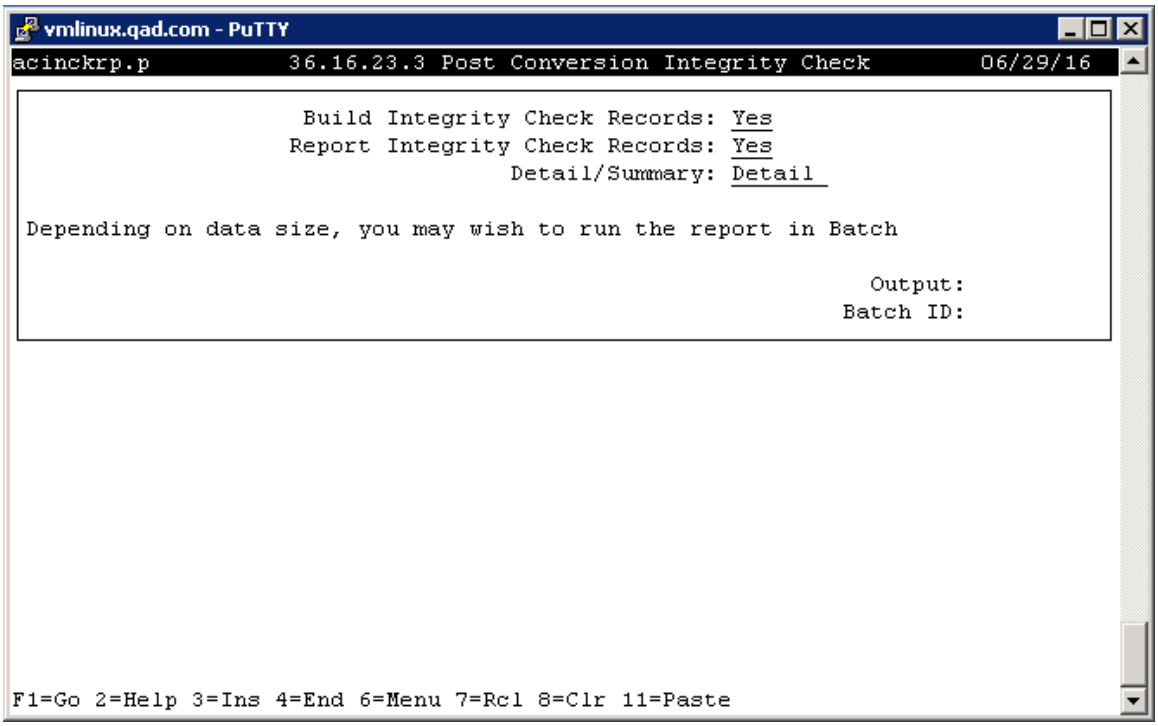
Run the Operational Account Structure Validation report.



1. Review the report output.
2. Note the processing time in the Processing Time Table.

Post Conversion Integrity Check (36.16.23.3)

Run Post Conversion Integrity Check and use the default selection criteria.



1. Review the report output
2. Note the processing time in the Processing Time Table.

Processing Time Table

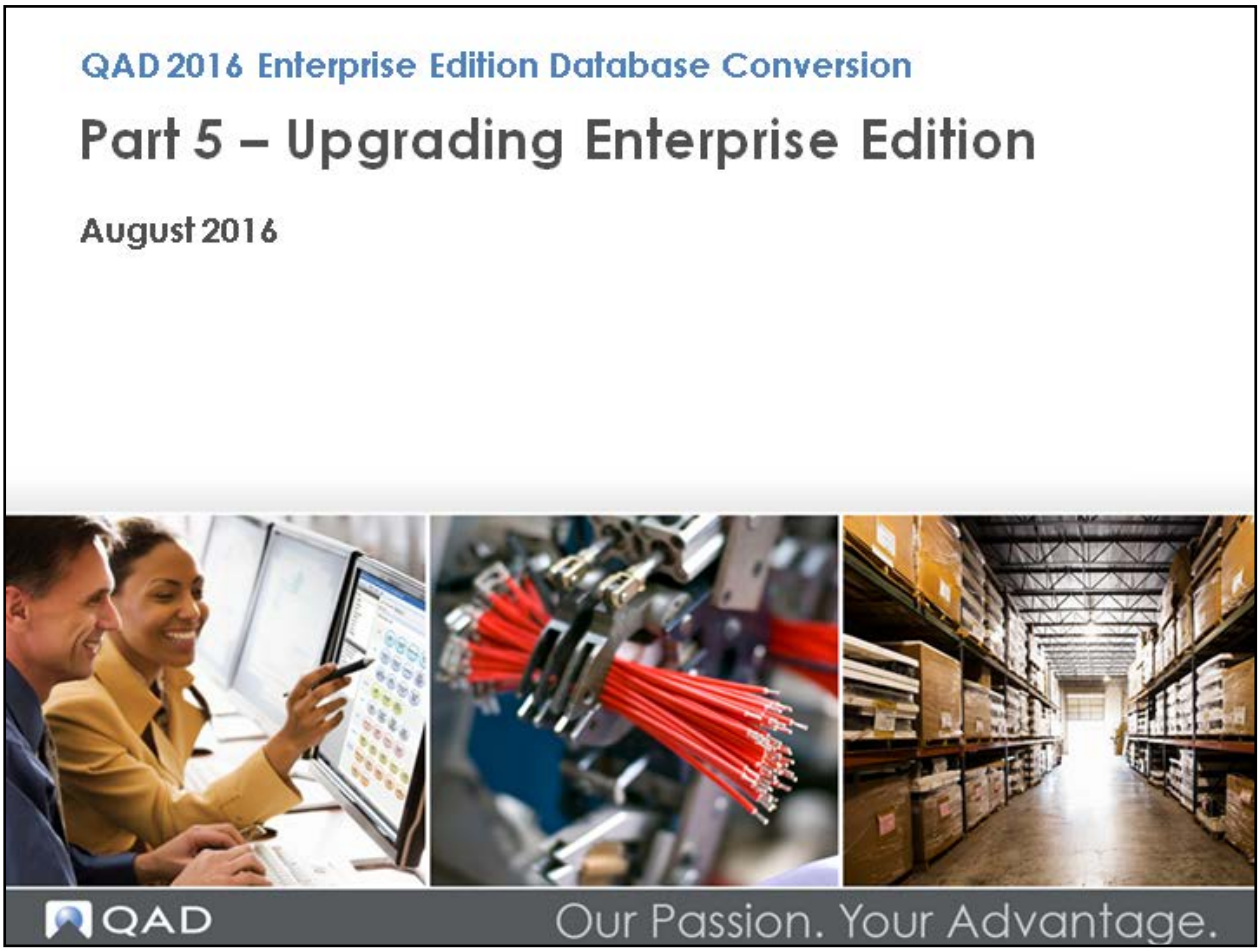
Record the processing times for each of the procedures in the table below:

Process	Start-Time	End-Time	Duration(min)
System Consistency Check			
Financials Consistency Check			
Operational Account Structure Validation			
Post Conversion Integrity Check			
TOTAL			

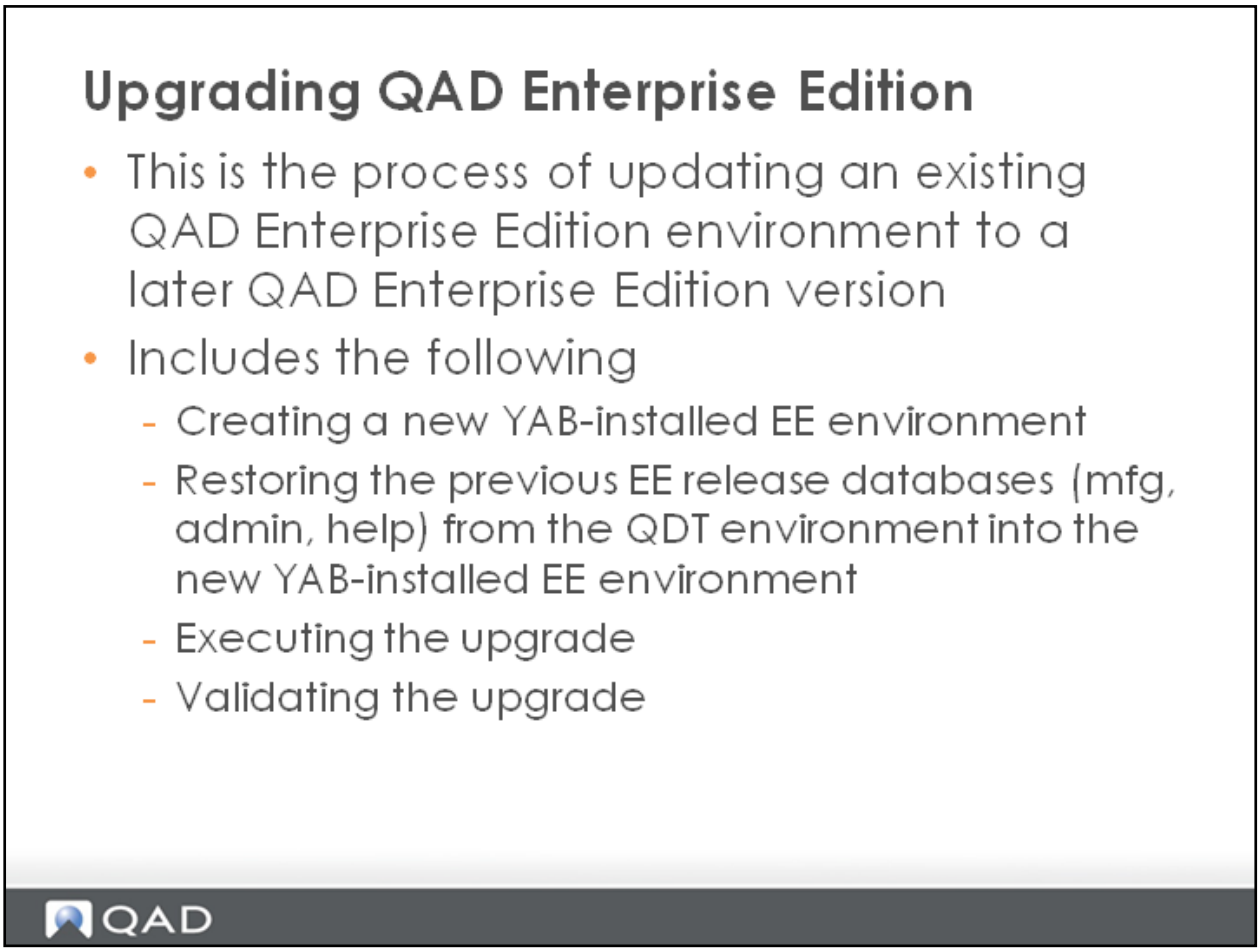
CHAPTER 5

Upgrading QAD Enterprise Edition

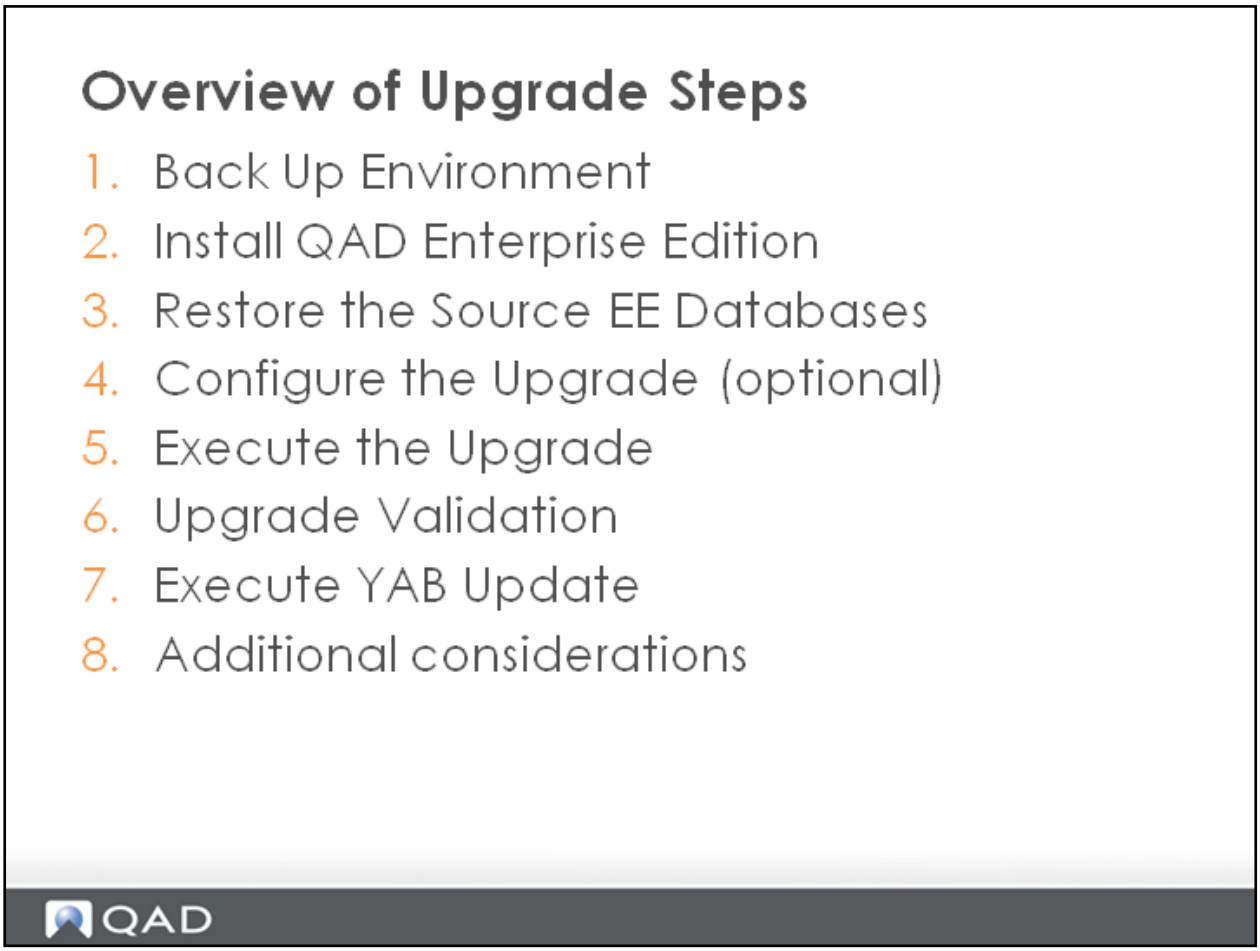
Upgrading Enterprise Edition



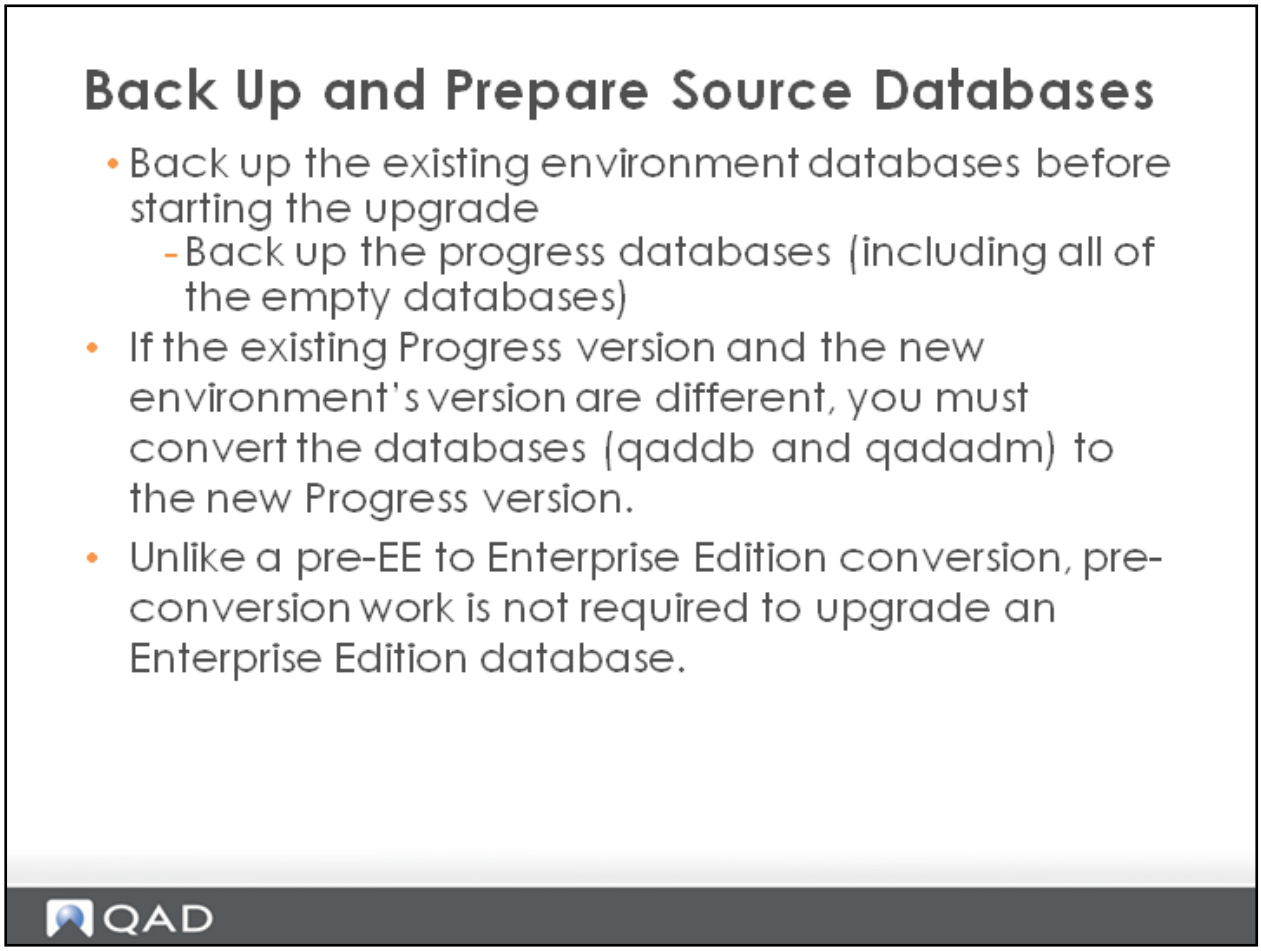
Upgrading QAD Enterprise Edition



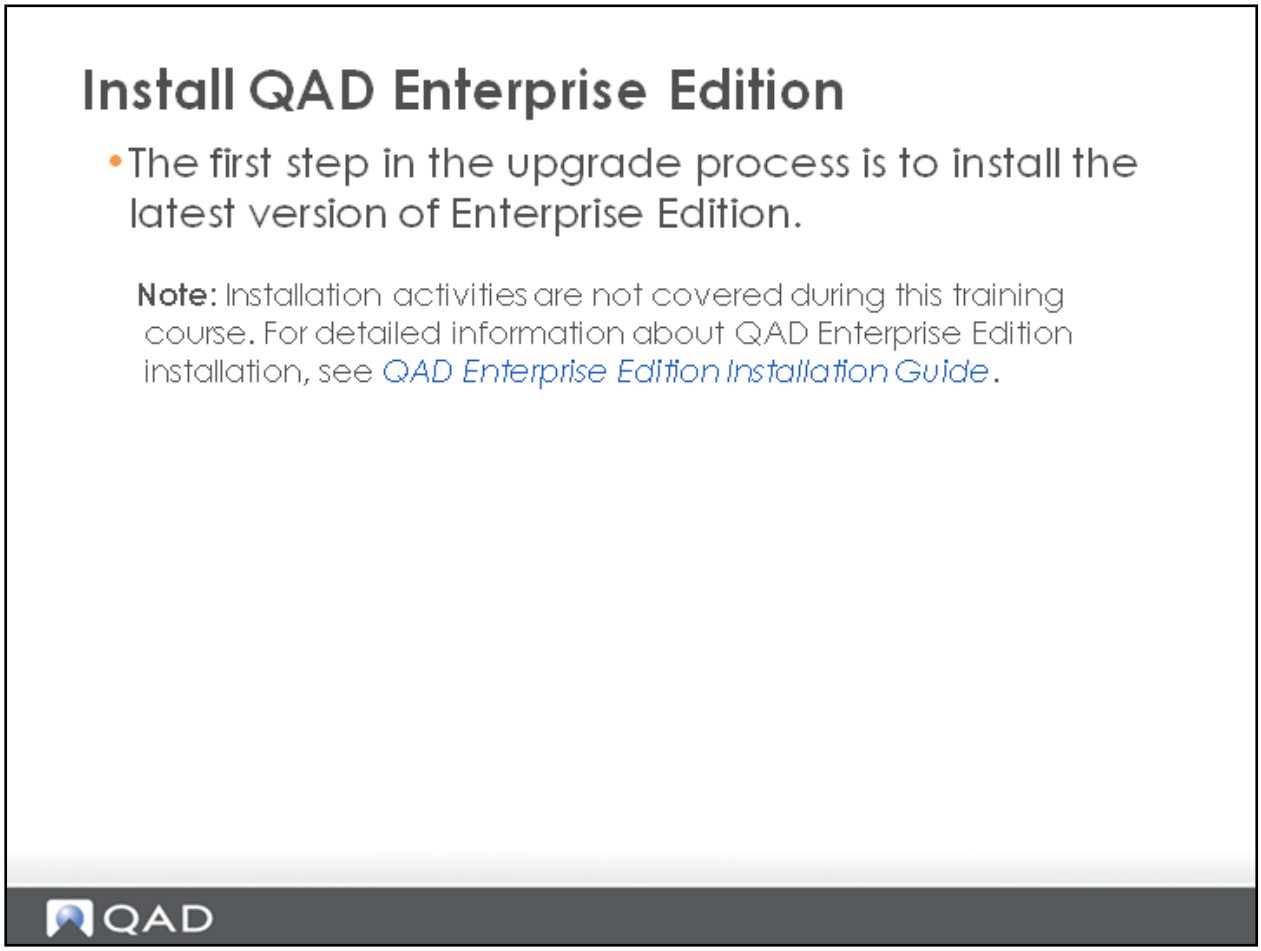
Overview of Upgrade Steps



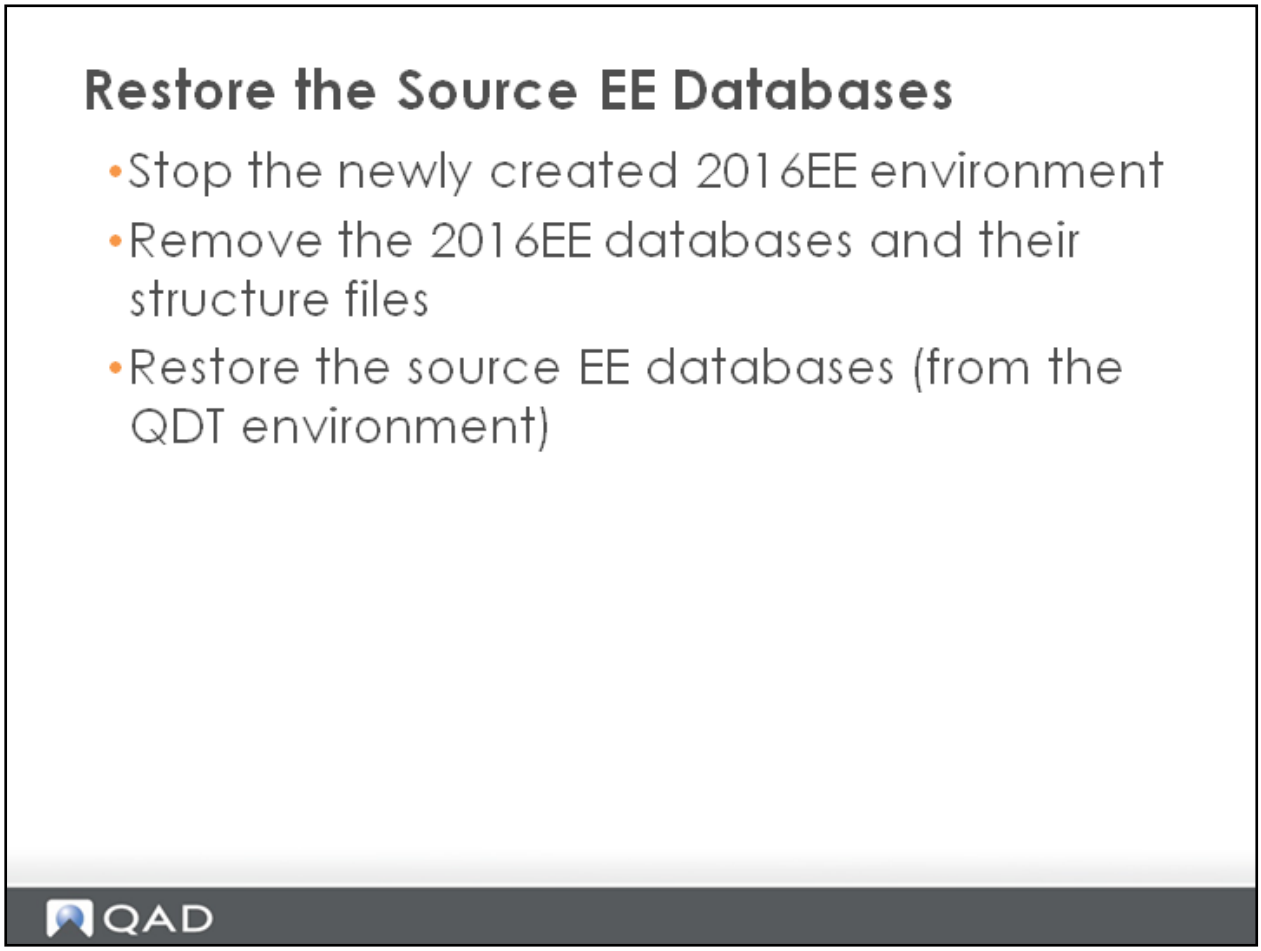
Back Up and Prepare Source Databases



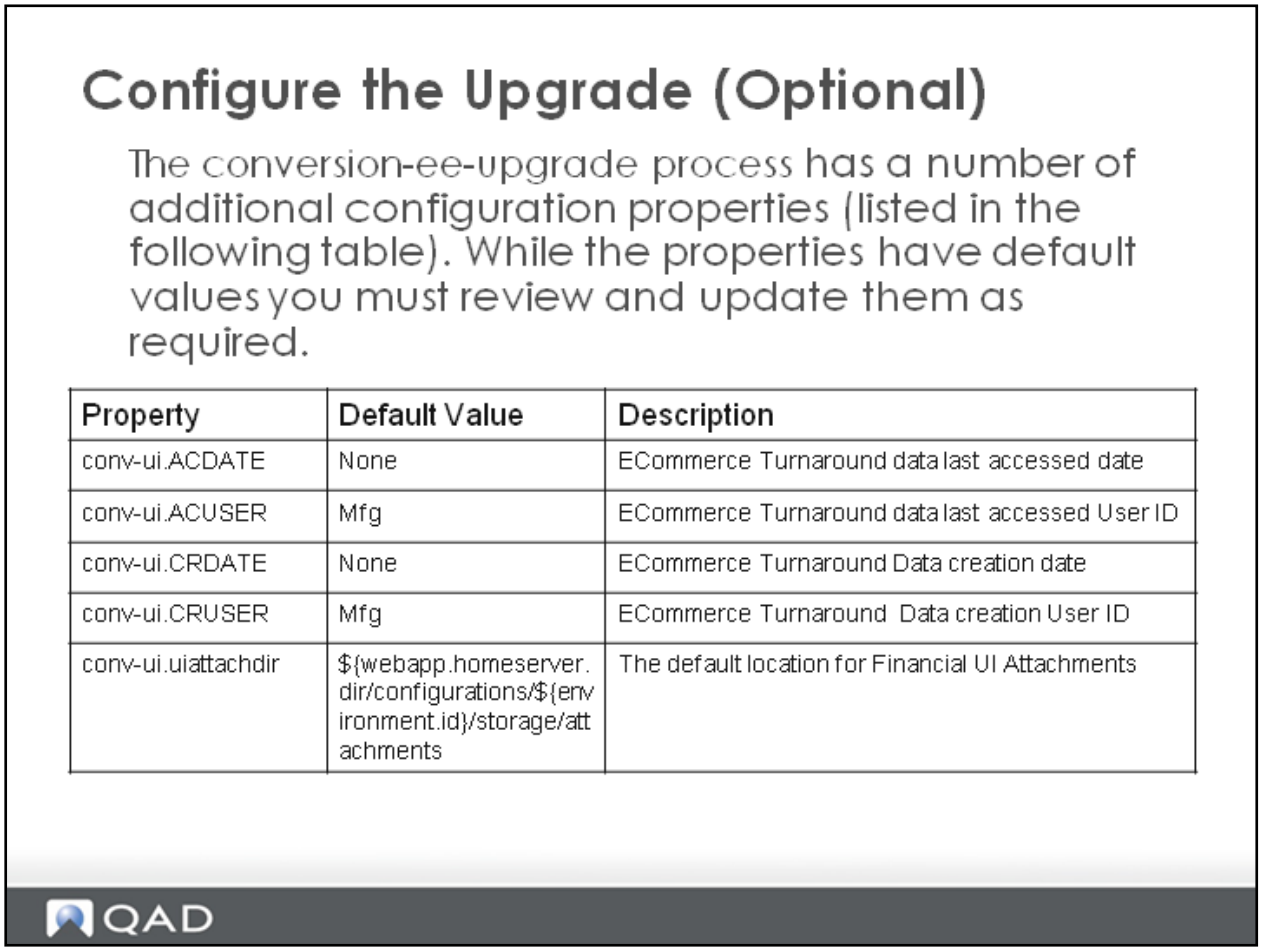
Install QAD Enterprise Edition



Restore the Source EE Databases



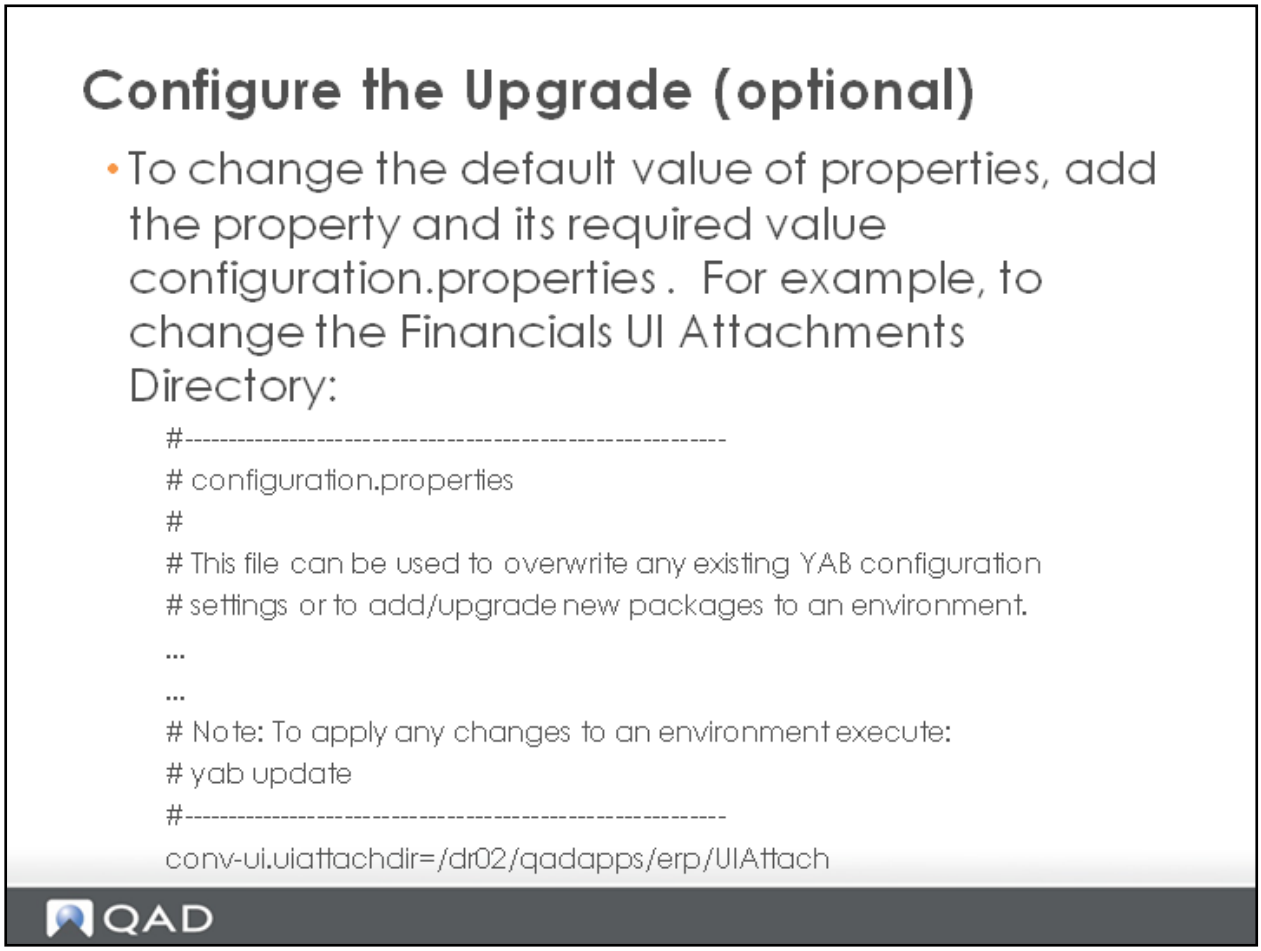
Configure the Upgrade (Optional)



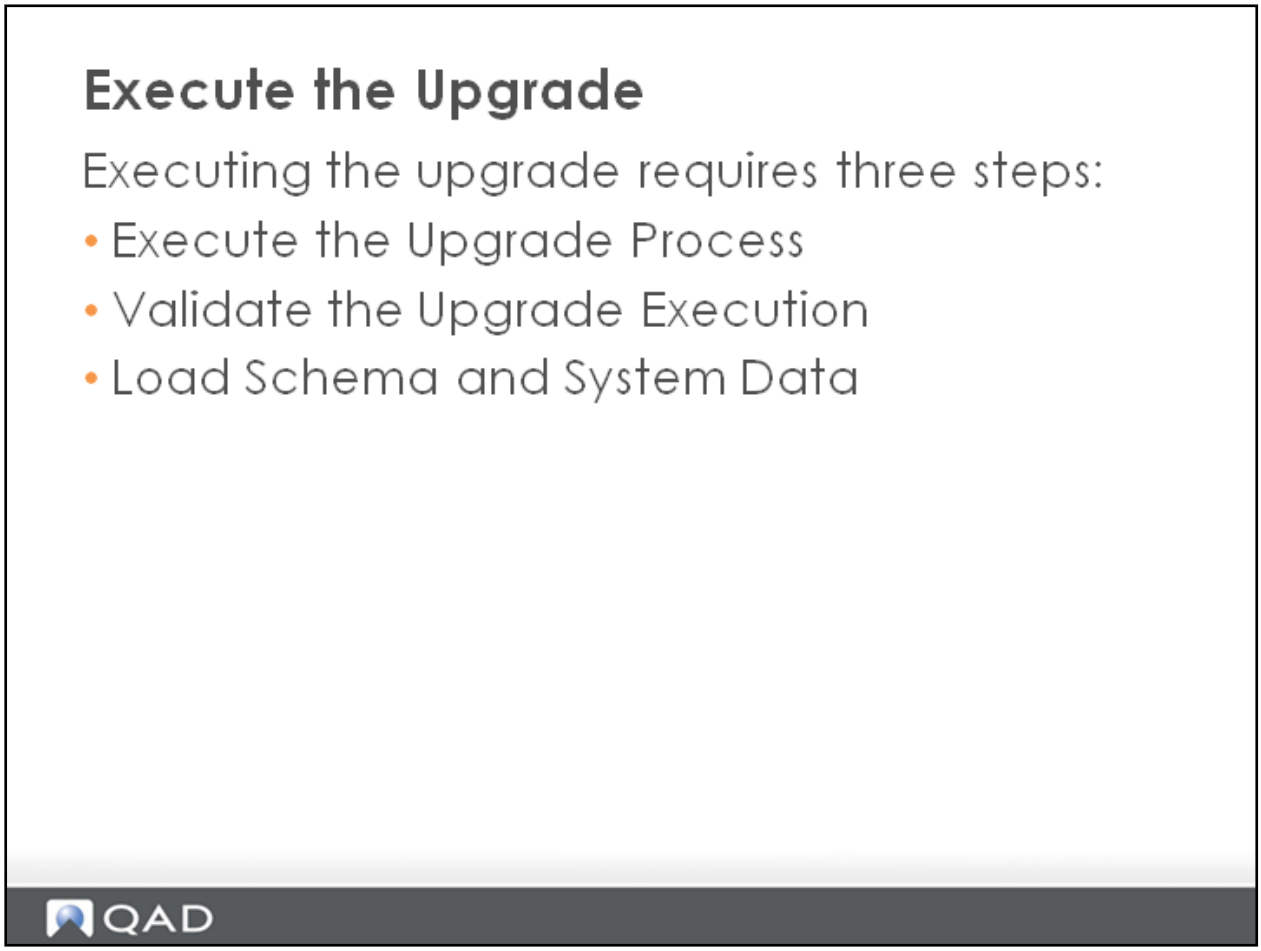
To view more detailed information for each configuration setting, use the yab help command.

To change the default value for any of the above properties, you must add the property and required value to configuration.properties

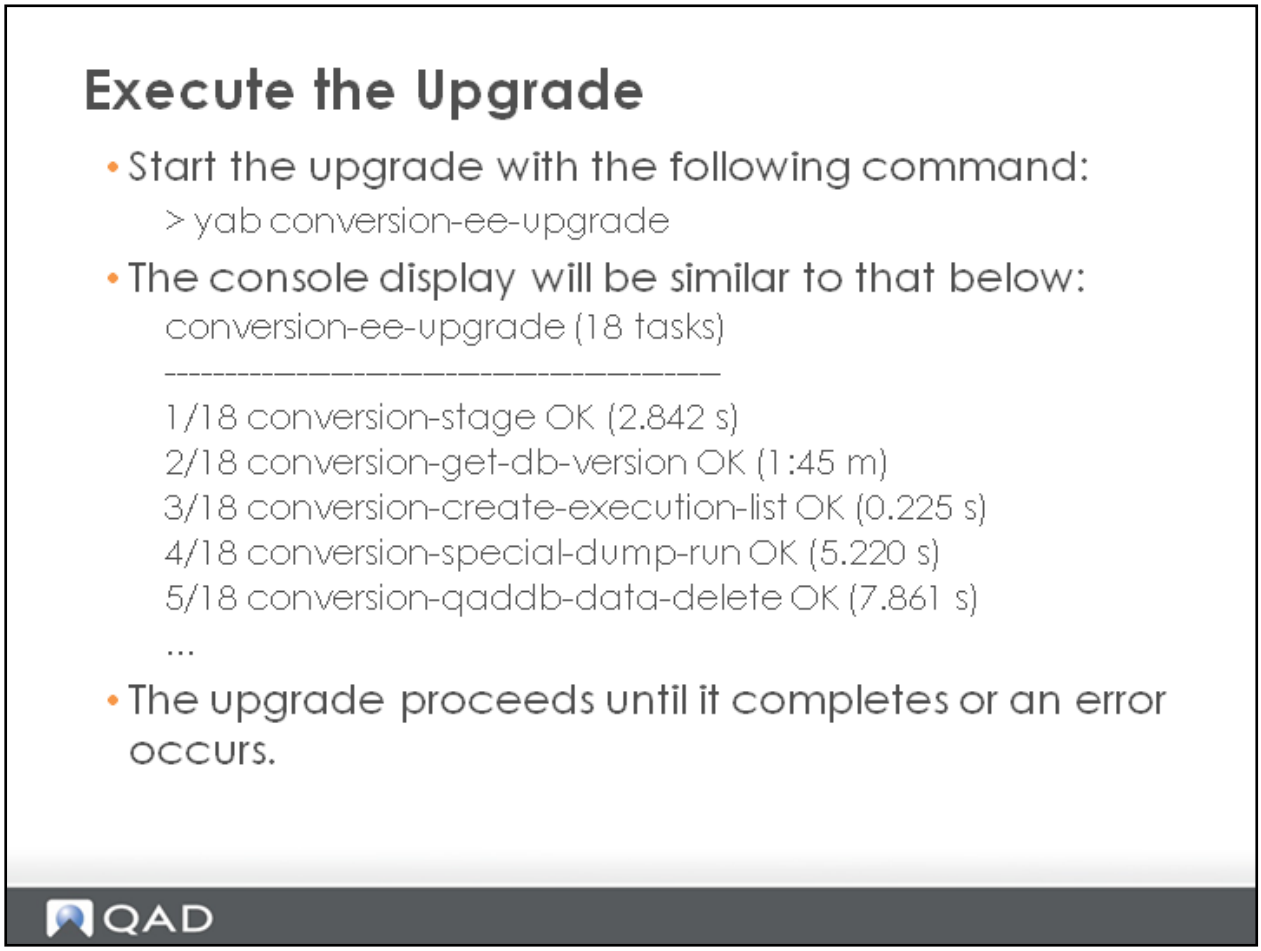
Configure the Upgrade (optional)



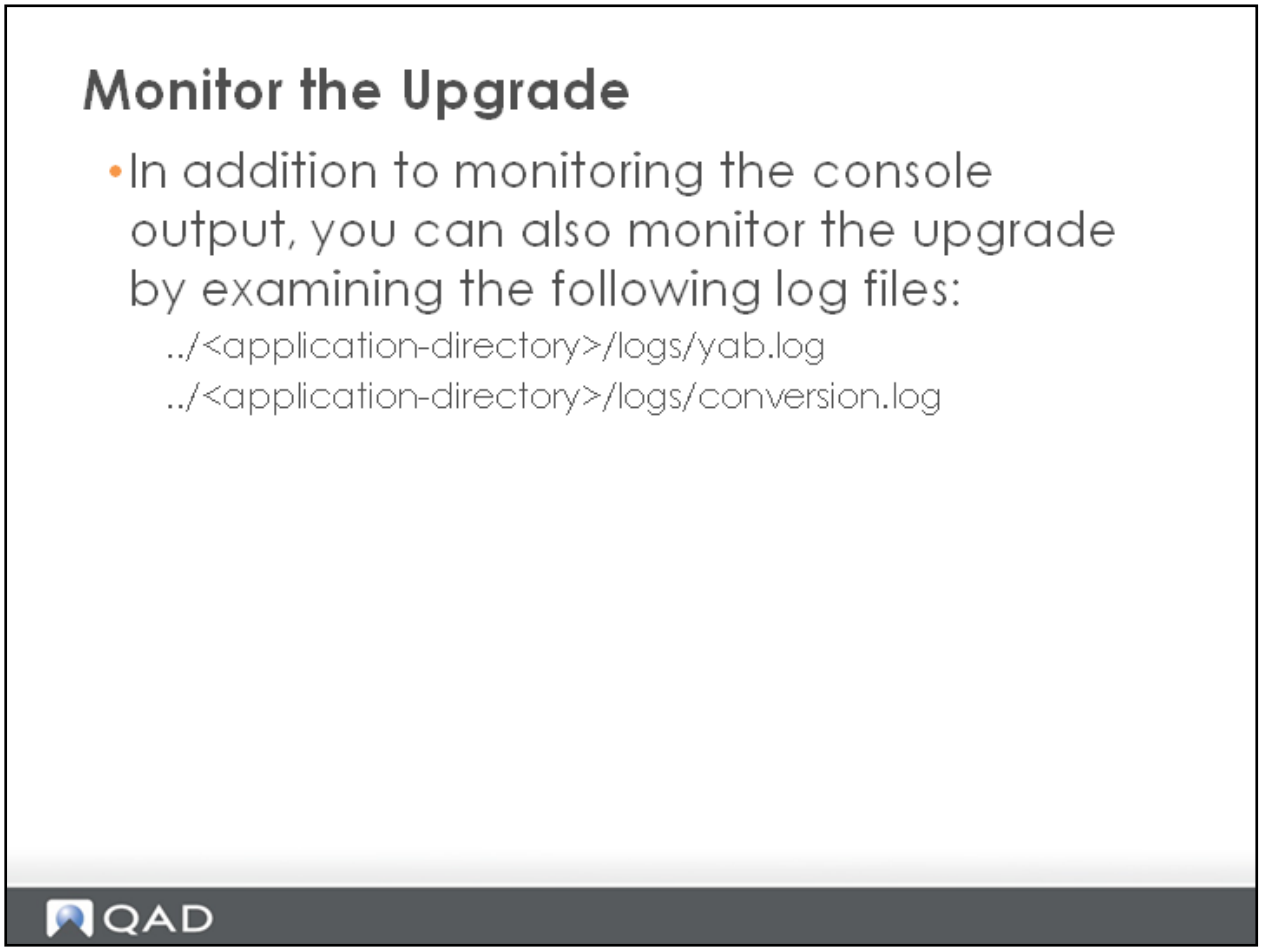
Execute the Upgrade



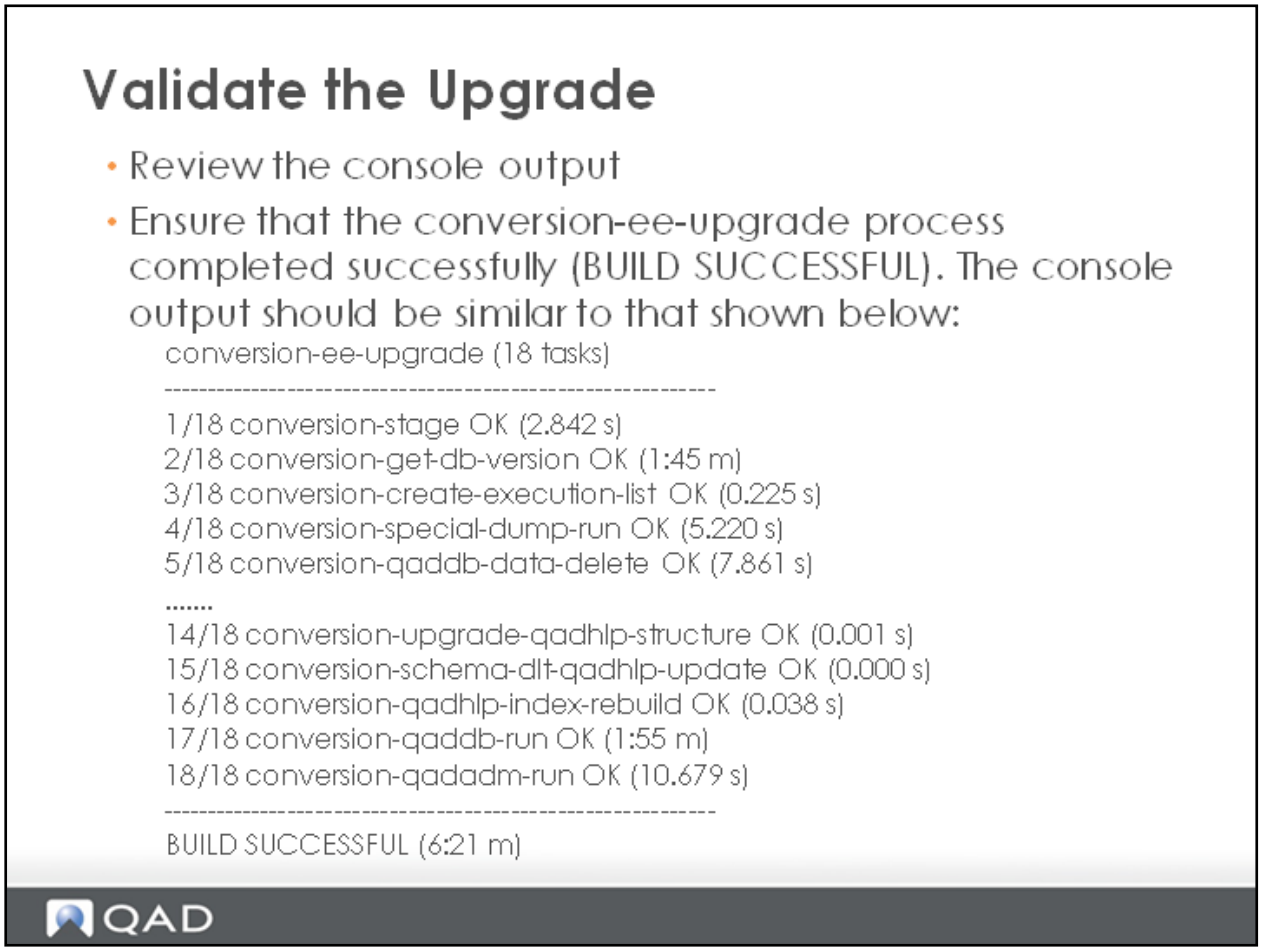
Execute the Upgrade



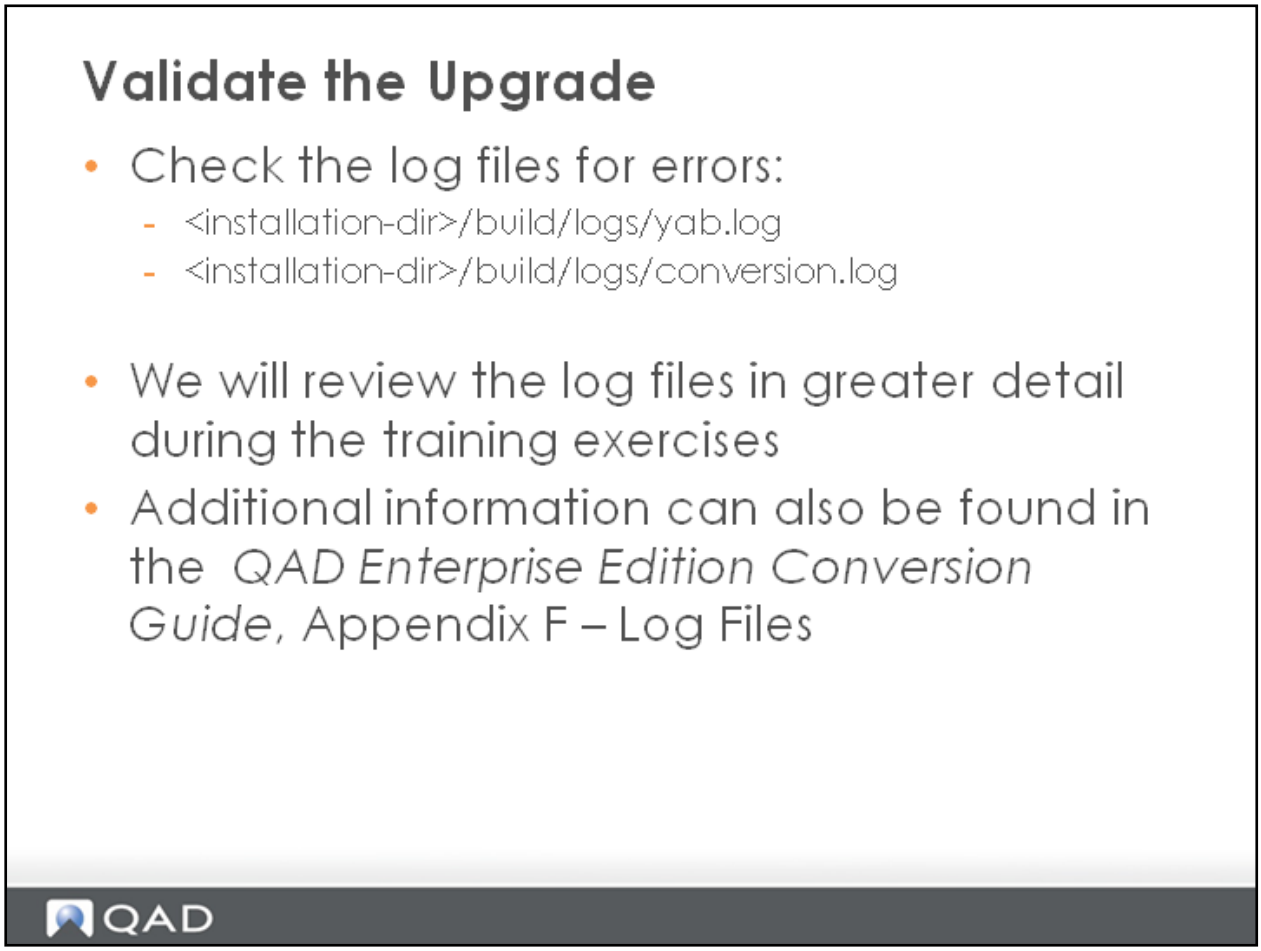
Monitor the Upgrade



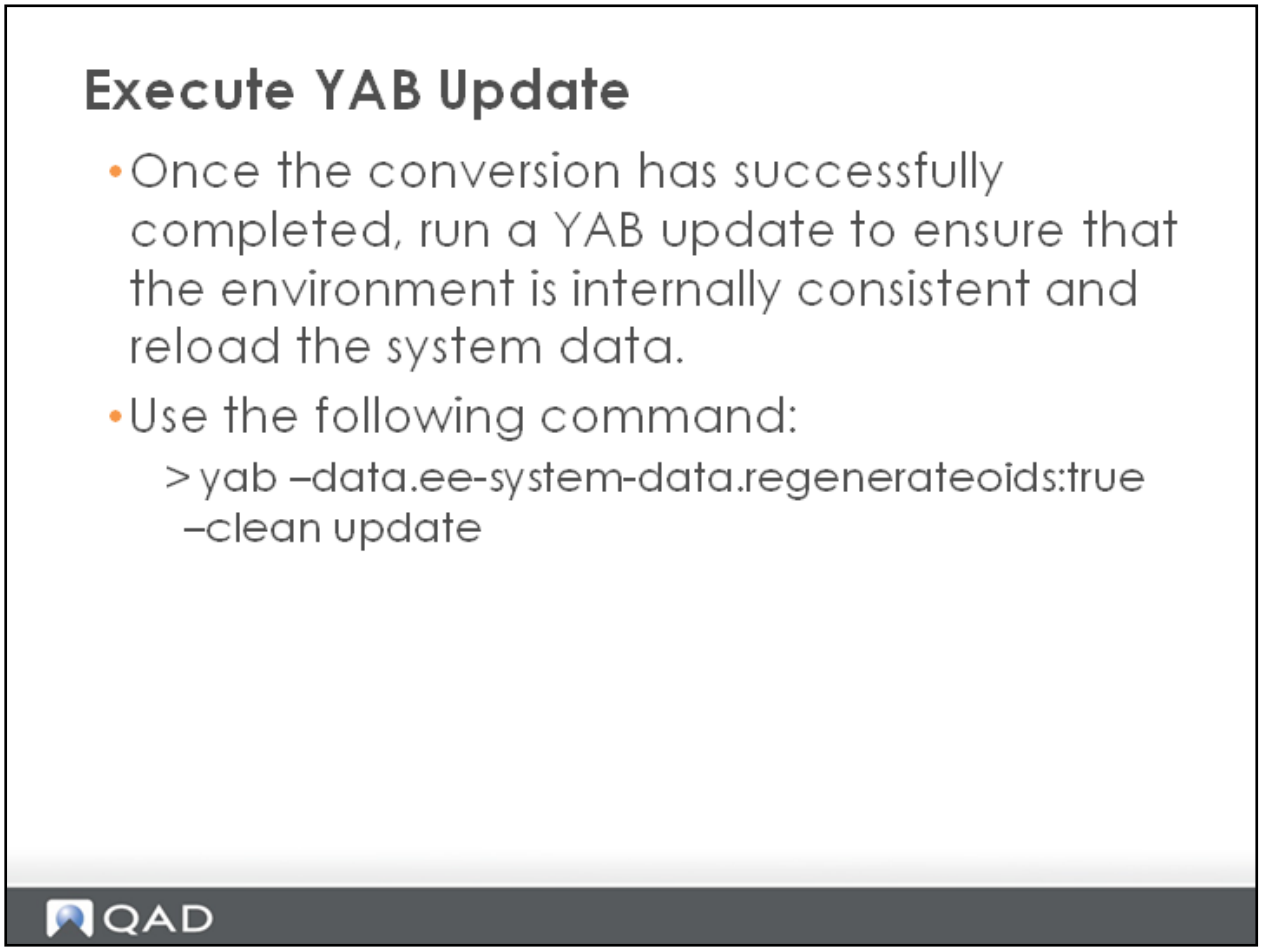
Validate the Upgrade



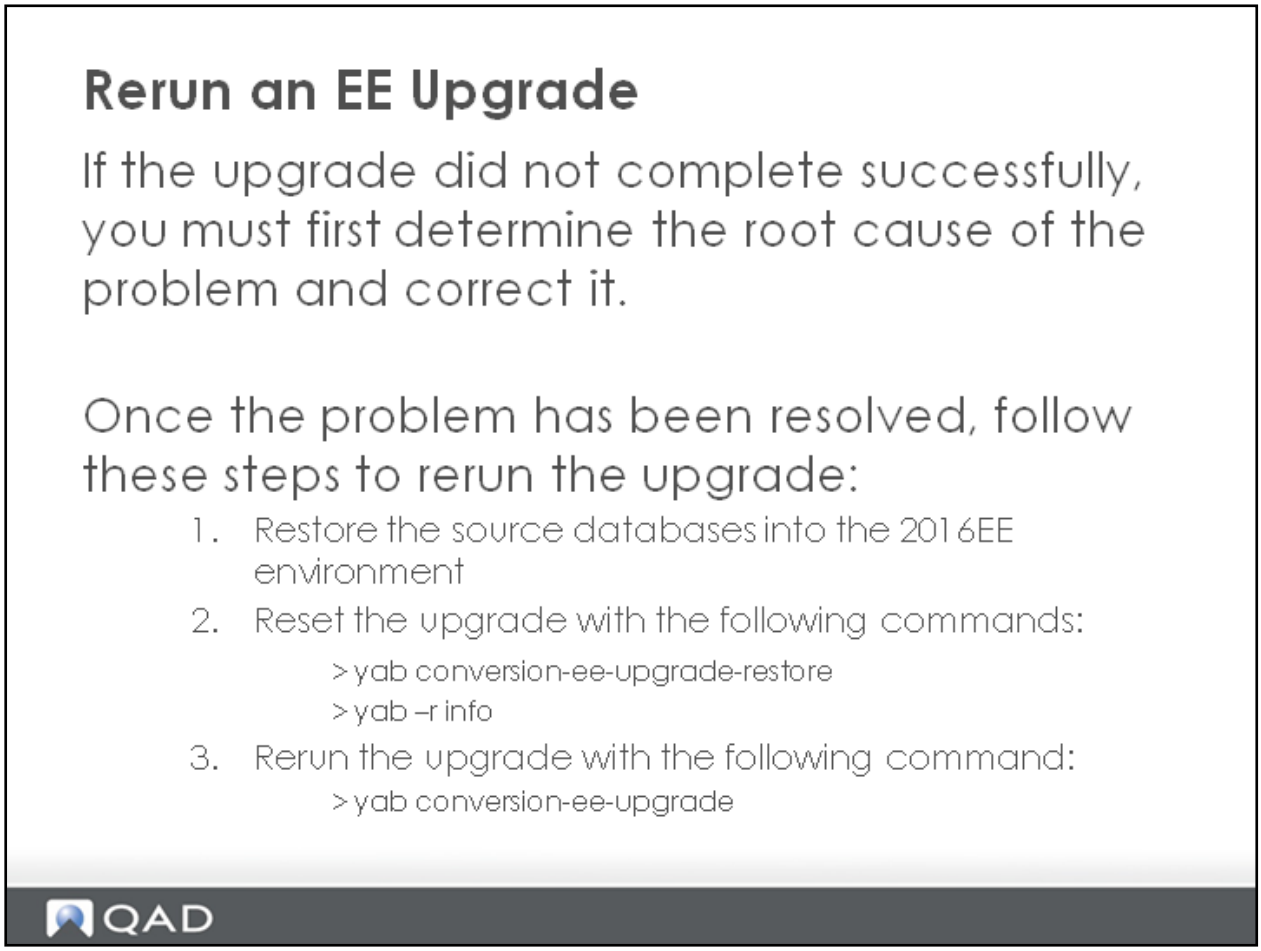
Validate the Upgrade



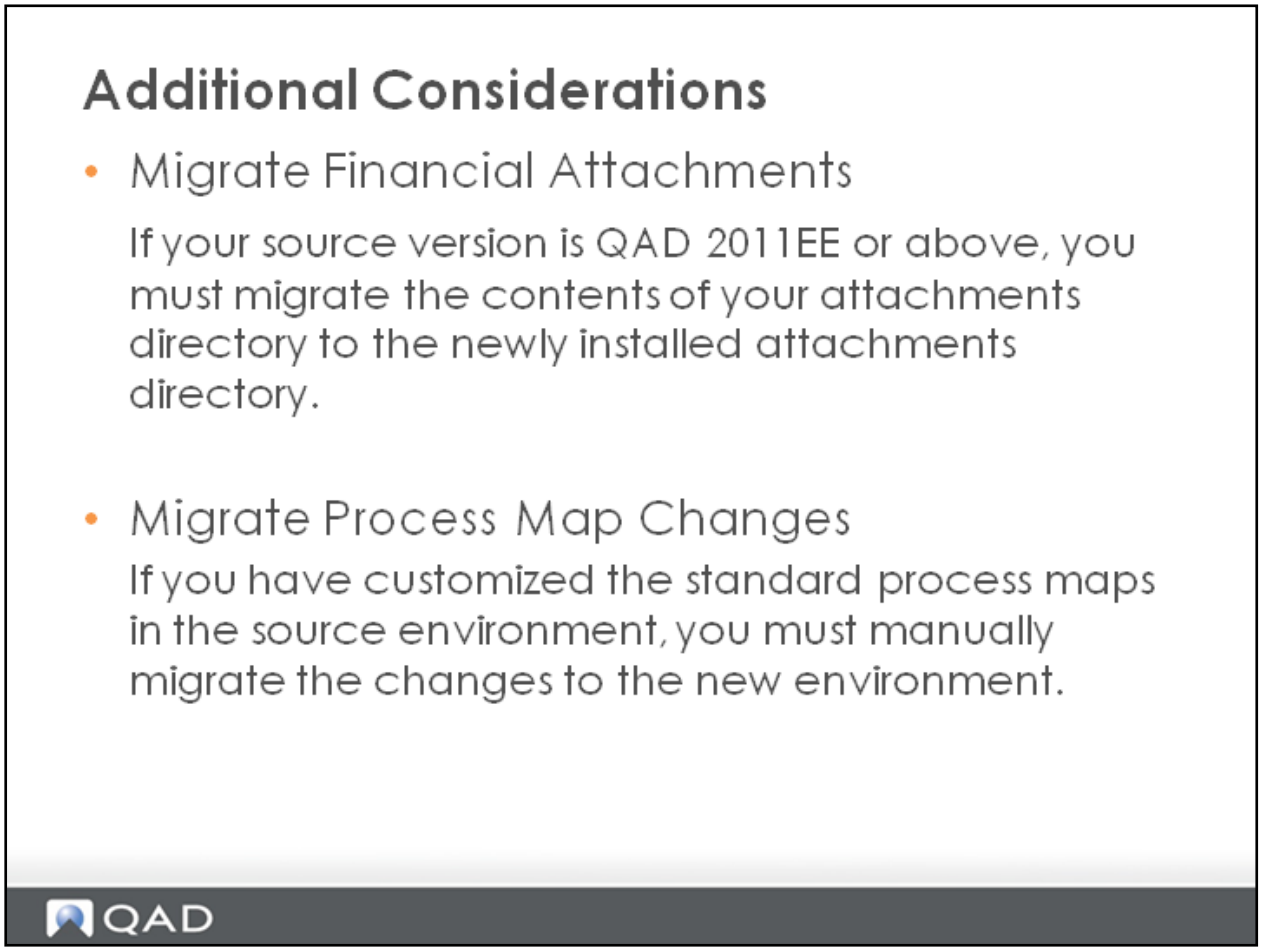
Execute YAB Update



Rerun an EE Upgrade

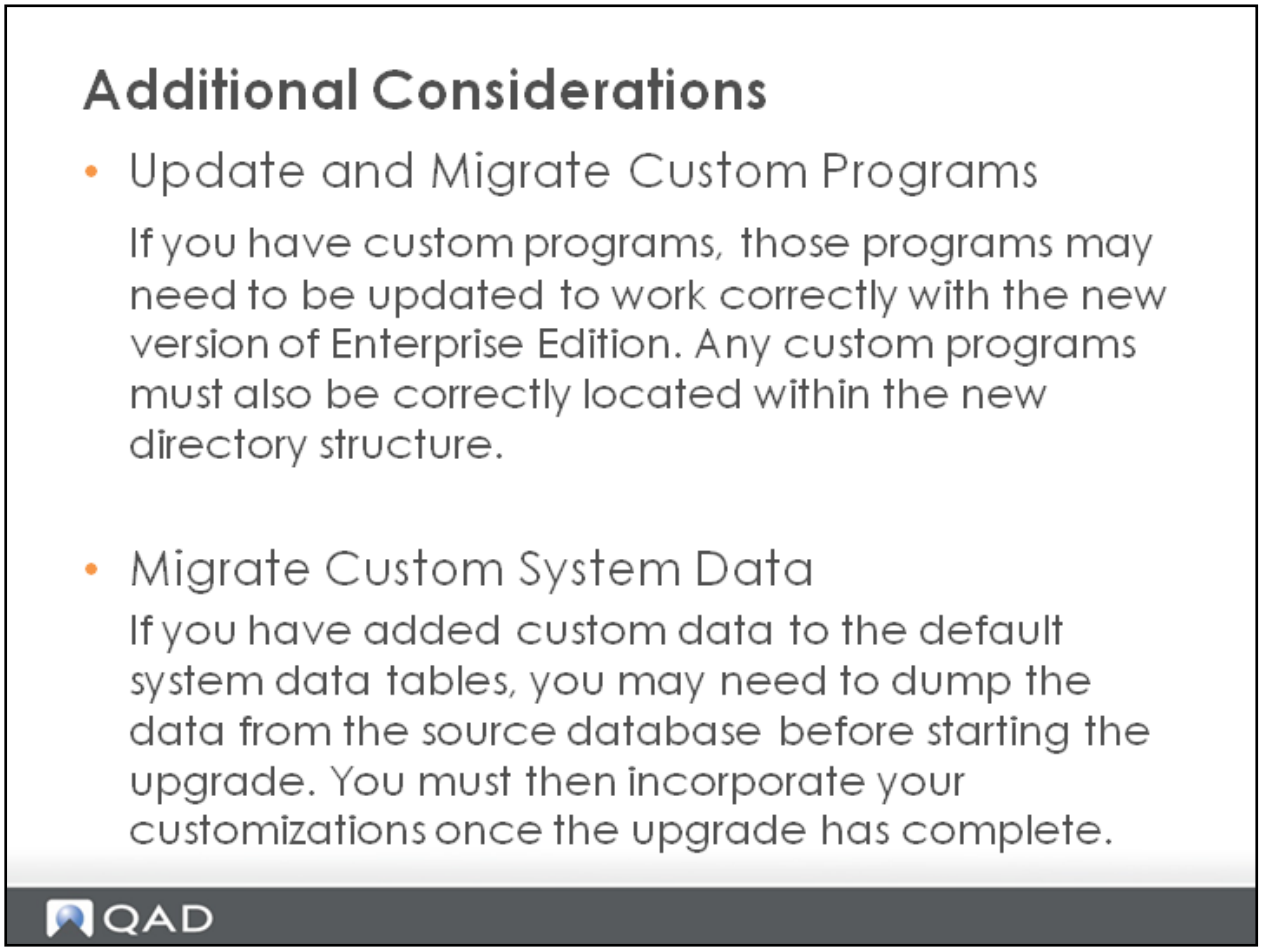


Additional Considerations



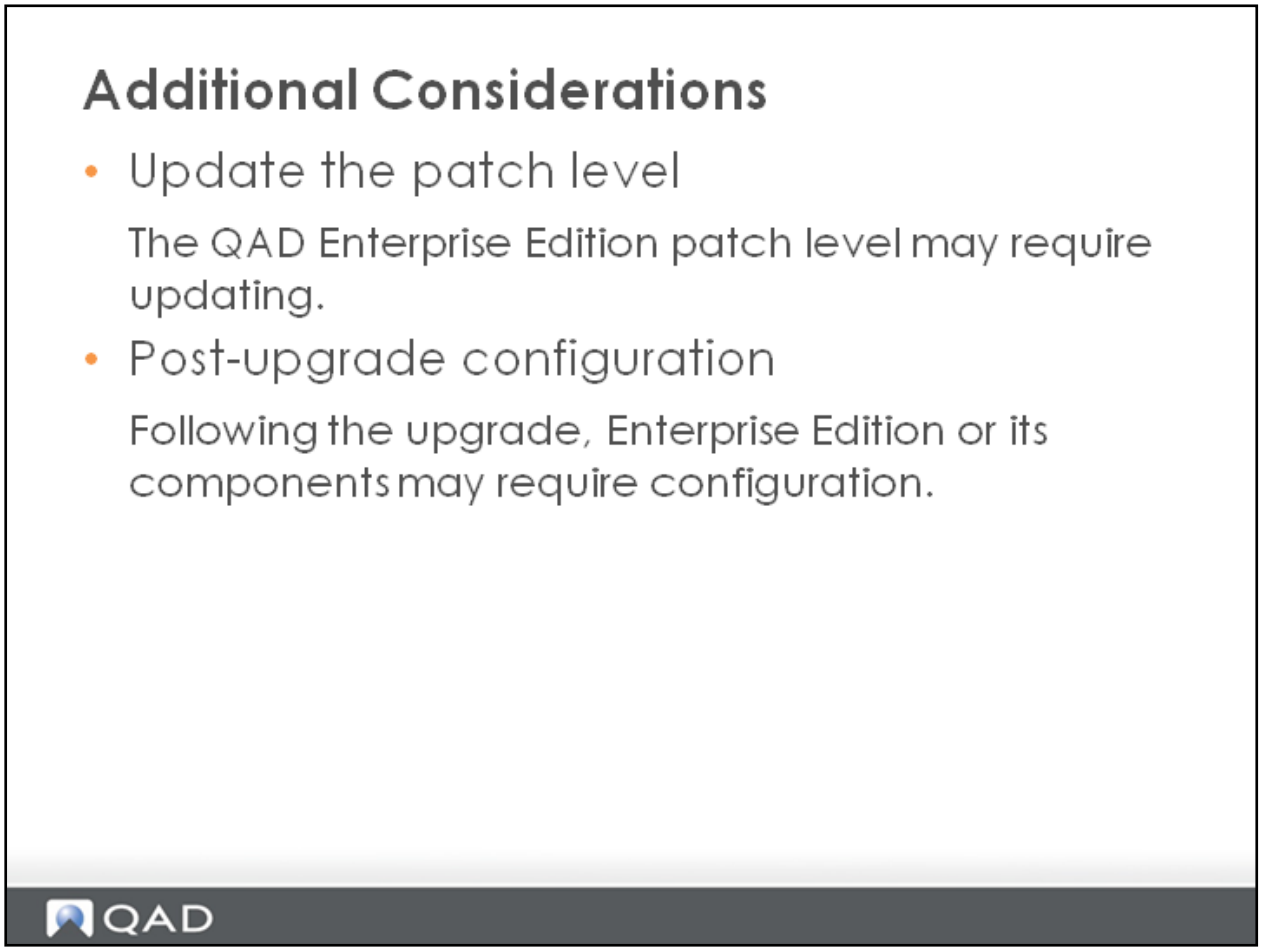
Additional information regarding all of these topics can be found in the *EE Configuration and Administration Guide*, *QAD Enterprise Edition Installation Guide* or the *QAD Enterprise Edition Conversion Guide*.

Additional Considerations



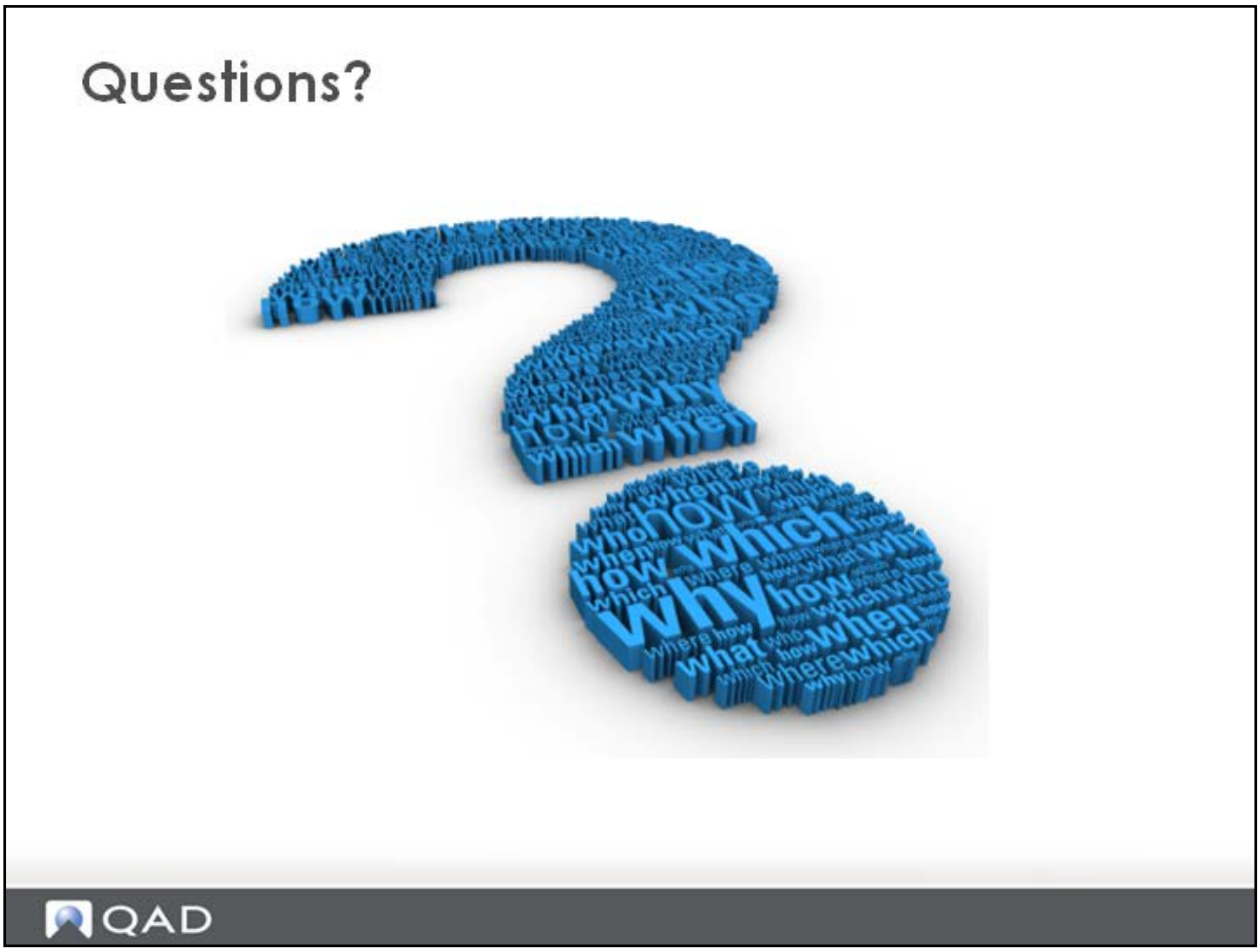
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Additional Considerations

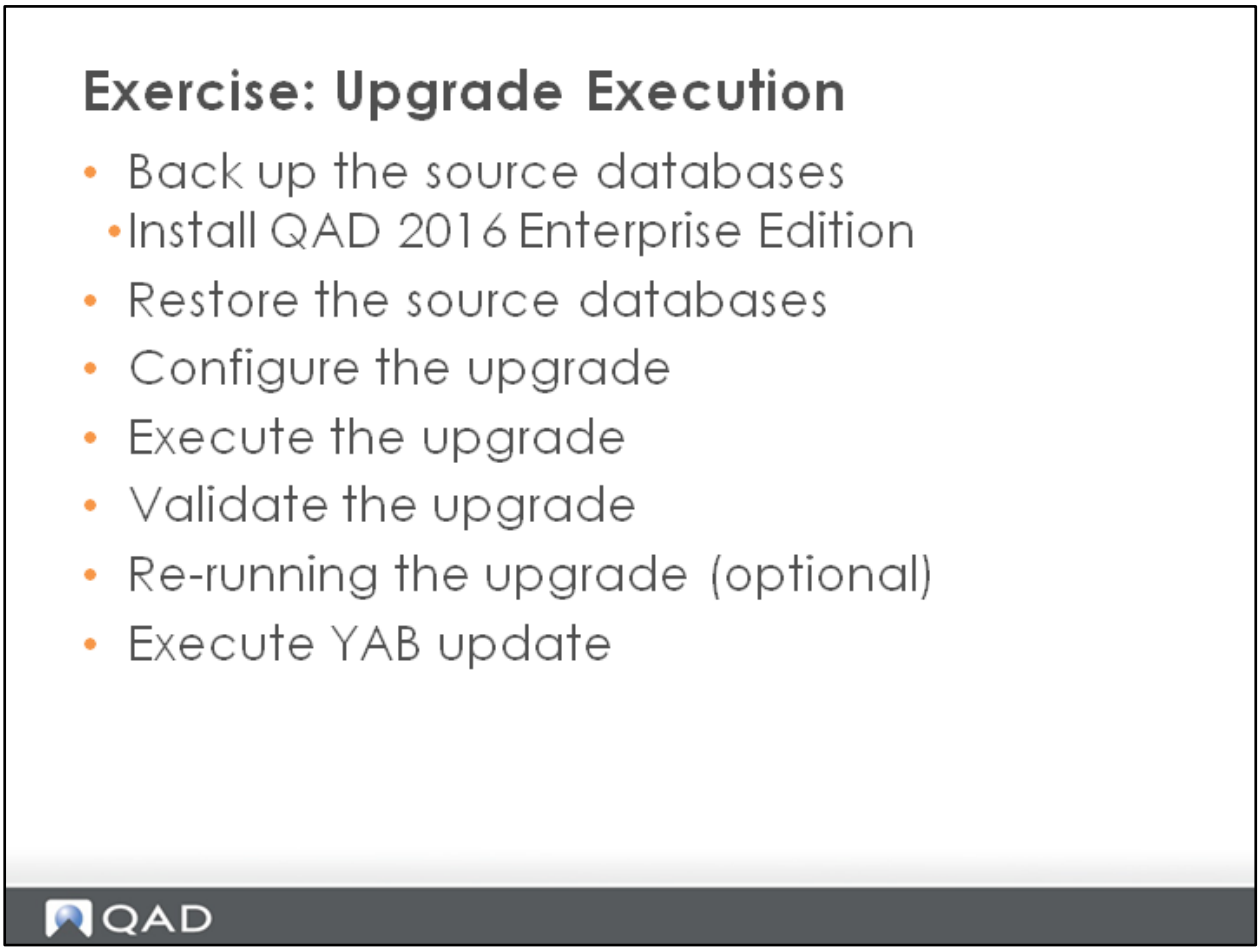


Additional information regarding all of these topics can be found in the *EE Configuration and Administration Guide*, *QAD Enterprise Edition Installation Guide* or the *QAD Enterprise Edition Conversion Guide*.

Questions?



Lab Exercise - Upgrade Execution Lab



Note: All upgrade activities should be carried out on the Linux server as user: mfg

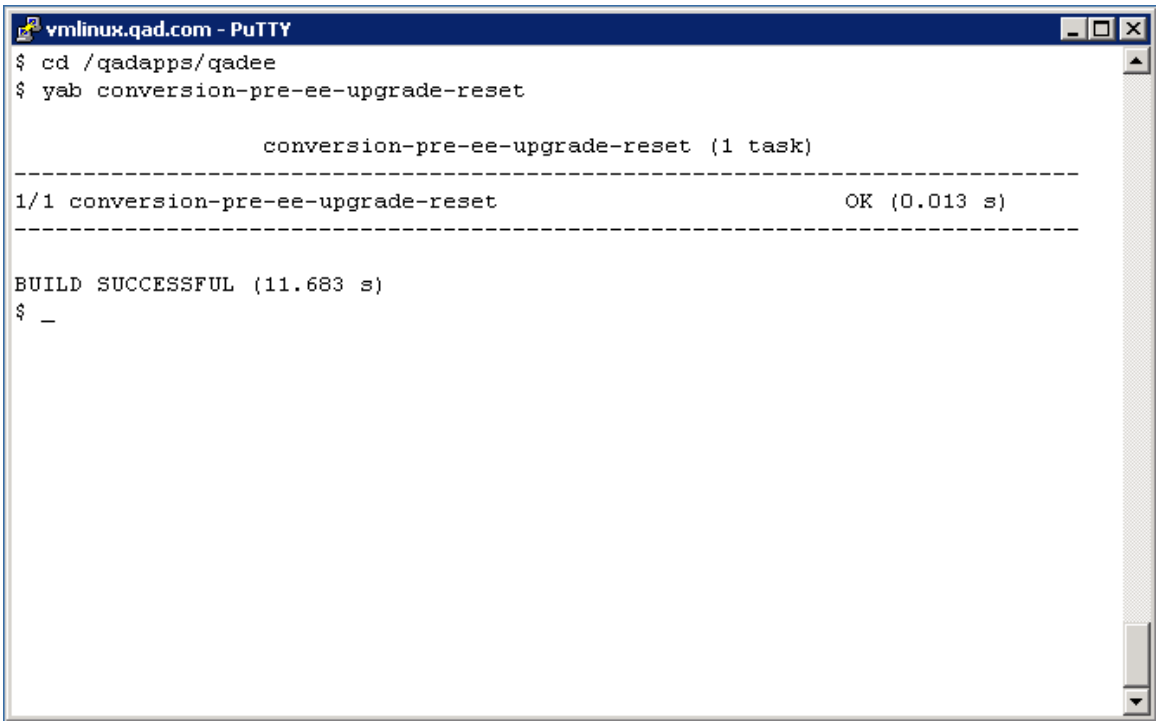
Login : mfg

Password : qad

Important: We will be using the same environment for the upgrade training exercise that we used for the earlier conversion training exercises. Ttherefore, we need to reset the conversion process before we can execute the EE upgrade.

You must run the following commands before continuing:

```
$ cd /qadapps/qadee
$ yab conversion-pre-ee-upgrade-reset
```



Because we already executed a conversion, we will clear the `conversion.log` and `yab.log` files. Please run the following commands:

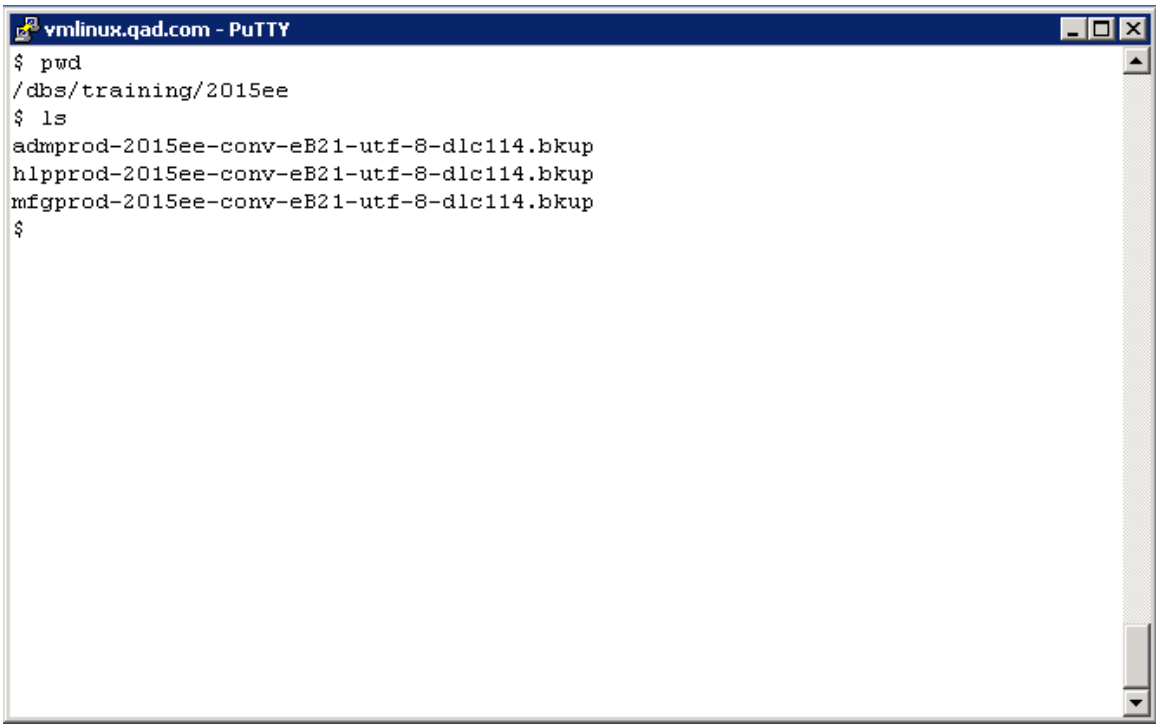
```
$ cd /qadapps/qadee/build/logs
$ mv yab.log yab.log.old
$ mv conversion.log conversion.log.old
```

Back Up the Source Databases

The first step in the upgrade process is to back up your current Enterprise Edition databases.

For the purpose of this training exercise, we will use a QAD 2015EE source version and upgrade to QAD 2016EE. The 2015EE databases have already been backed up and the `.bkup` files are located in the following location:

```
$ /dbs/training/2015ee
```



Install QAD Enterprise Edition

Create a new install of QAD 2016EE.

For the purpose of this training course, QAD 2016EE has been installed for you in the following location:

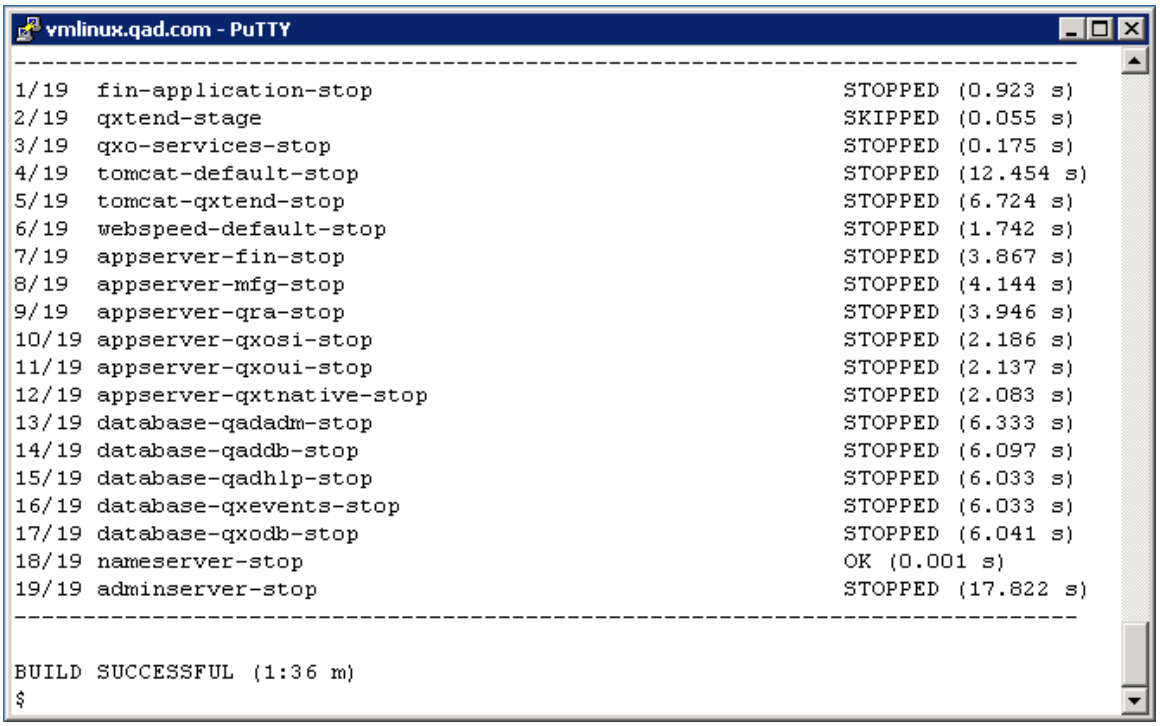
```
$ /qadapps/qadee
```

Restore the Source EE Databases

We now need to replace the newly installed 2016EE databases with the databases from our 2015EE source environment.

1. Stop the 2016EE environment with the following command:

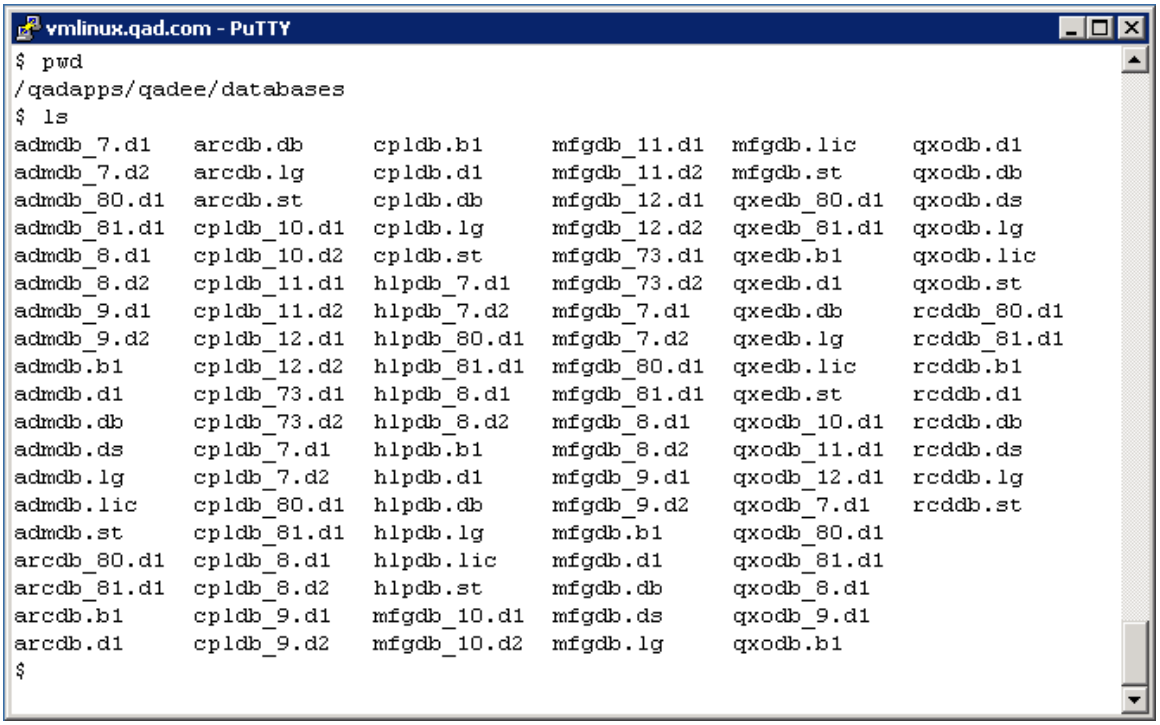
```
$ cd /qadapps/qadee
$ yab stop
```



2. Remove the newly installed 2016EE databases and their structure files.

   a. Change to the database directory.

      ```
      $ cd /qadapps/qadee/databases
      ```



   b. Remove the mfgdb database:

```
$ prodel mfgdb
```

c. Remove the associated structure files:

```
$ rm mfgdb.st
```

d. Remove the admdb database:

```
$ prodel admdb
```

e. Remove the associated structure files:

```
$ rm admdb.st
```

f. Remove the hlpdb database:

```
$ prodel hlpdb
```

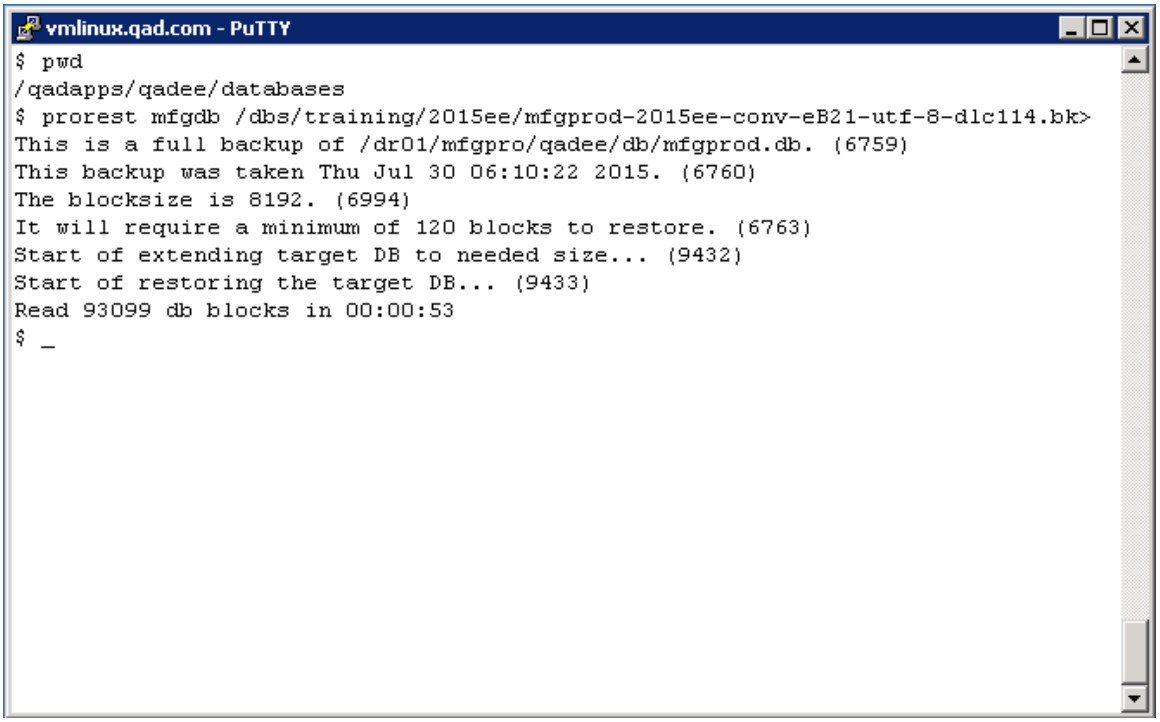
g. Remove the associated structure files:

```
$ rm hlpdb.st
```

3. Restore the source 2015EE databases:

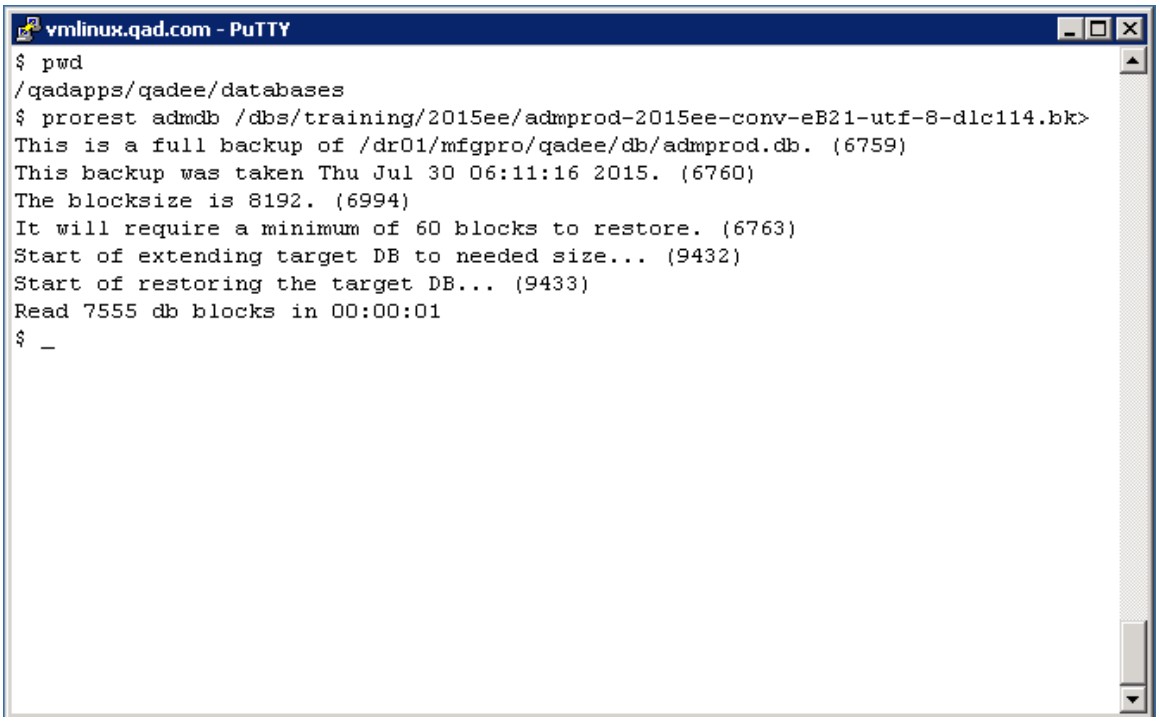
a. Restore the mfgdb database:

```
$ prorest mfgdb /dbs/training/2015ee/mfgprod-2015ee-conv-eB21-
utf-8-dlc114.bkup
```



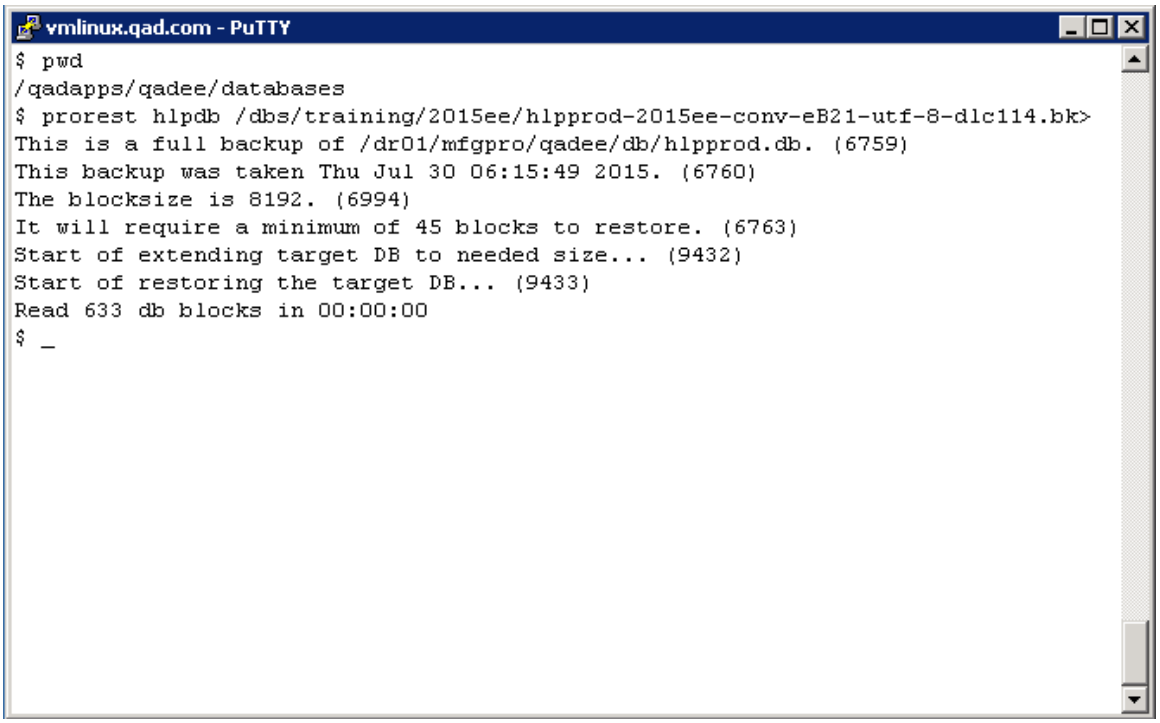
b. Restore the admdb database:

```
$ prorest admdb /dbs/training/2015ee/admprod-2015ee-conv-eB21-
utf-8-dlc114.bkup
```



c. Restore the hlpdb database:

```
$ prorest hlpdb /dbs/training/2015ee/hlpprod-2015ee-conv-eB21-
utf-8-dlc114.bkup
```



Configure the Upgrade (Optional)

The `conversion-ee-upgrade` process has a number of optional configuration properties. The properties have default values and do not need to be explicitly set.

To override the default configuration settings, add the property name and value to `configuration.properties` found in the following location:

```
/qadapps/qadee/build/config/configuration.properties
```

For the purposes of this activity, we will execute the upgrade with default configuration settings.

For additional information, refer to the *QAD Enterprise Edition Conversion Guide*.

Execute the Upgrade

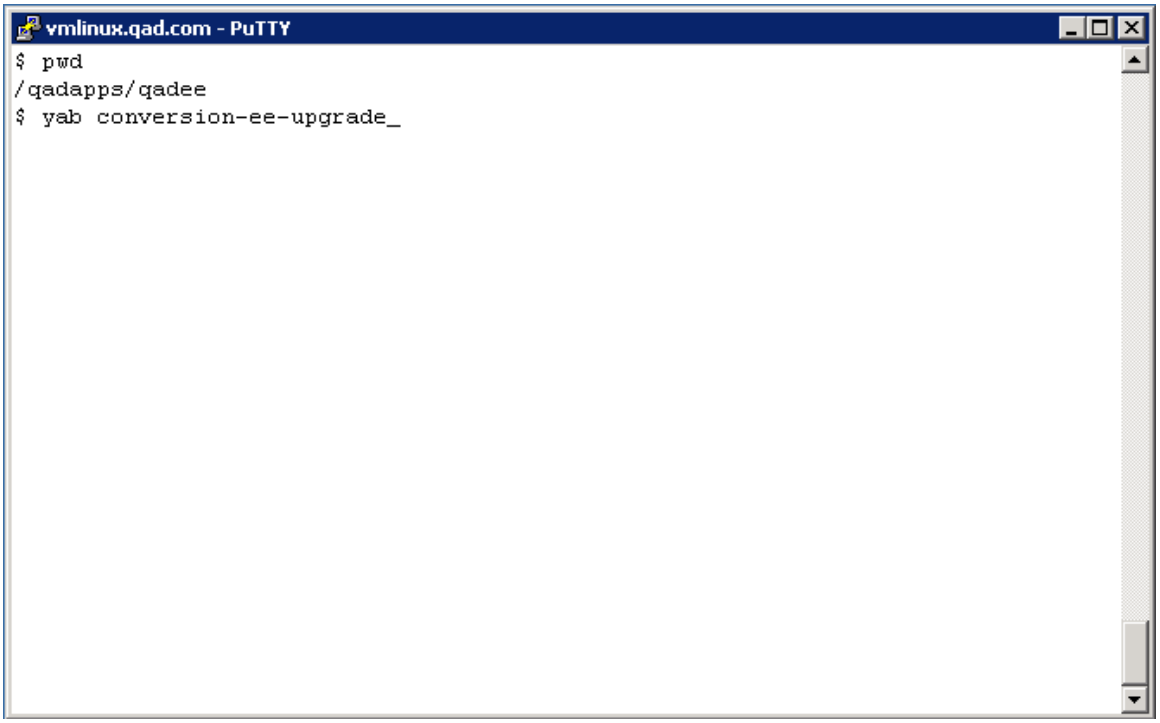
Follow these steps to execute the upgrade:

1. Change to the installation directory:

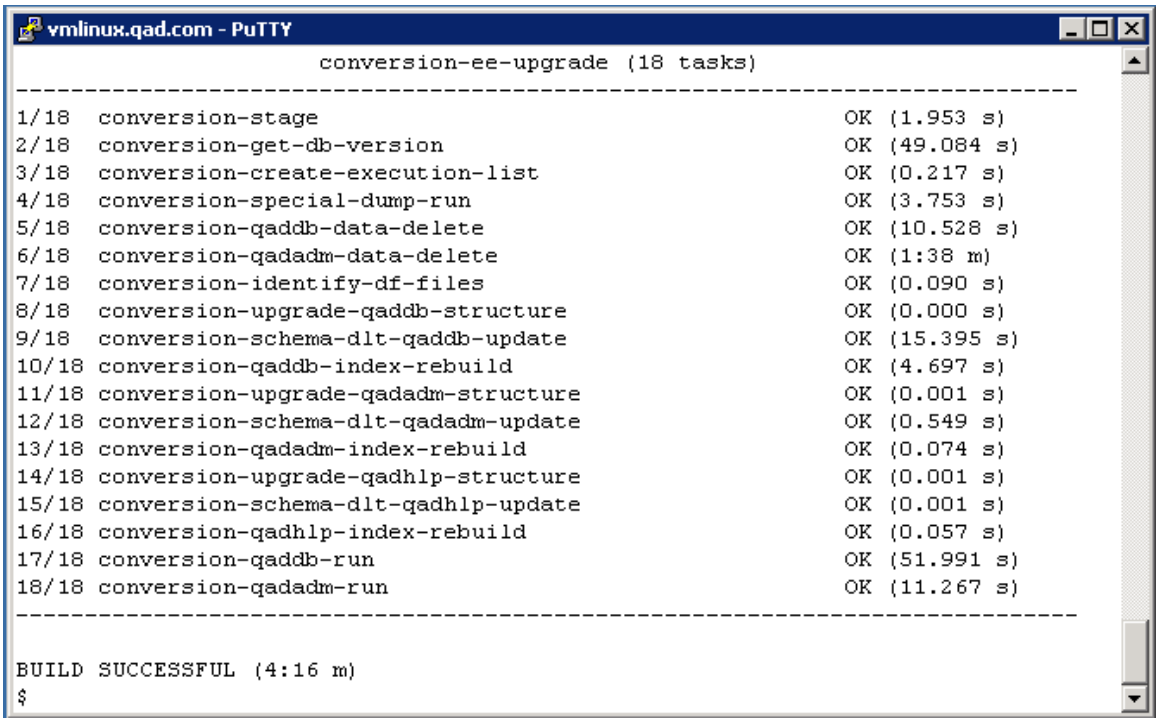
   ```
   $ cd /qadapps/qadee
   ```

2. Start the upgrade with the following command:

   ```
   $ yab conversion-ee-upgrade
   ```



The console output will be similar to that shown below:



The upgrade will proceed until it completes or an error occurs. No further input is required until the upgrade ends.

Review the Log Files

To view the log files, change to the following directory:

```
$ cd /qadapps/qadee/build/logs
```

1. Review `yab.log` output

    a. Locate log content associated with determining the source database version. Search for:

    ```
    BuildContext – conversion-get-db-version
    ```

    Confirm that the process completed successfully. Search for:

    ```
    BuildContext – conversion-get-db-version OK
    ```

    b. Locate log content associated with the qaddb conversion step and confirm that the process completed successfully. Search for:

    ```
    BuildContext – conversion-qaddb-run
    ```

    ```
    BuildContext – conversion-qaddb-run OK
    ```

    c. Locate log content associated with the qadadm conversion step and confirm that the process completed successfully. Search for:

    ```
    BuildContext – conversion-qadadm-run
    ```

    ```
    BuildContext – conversion-qadadm-run OK
    ```

2. Use the table below to locate the corresponding entries in `conversion.log`

YAB Process	conversion.log entry
conversion-get-src-db-version	Executing step: get-db-version.p
conversion-create-execution-list	Executing step: create-sel-conv.p
conversion-special-dump-run	Executing step: special-dump.p
conversion-qaddb-data-delete	Executing step: run-inp-drop.p
conversion-qadadm-data-delete	Executing step: run-inp-drop.p
conversion-qaddb-run	Executing step: run-qaddb-conv.p
conversion-qadadm-run	Executing step: run-qadadm-conv.p

3. You should thoroughly review the content of the `conversion.log` file. Pay particular attention to the qaddb conversion.

   Review `conversion.log` output:

   a. Locate the start and end of the qadadm conversion in the `conversion.log.` Search for:

   ```
   Executing step: run-qadadm-conv.p
   Executing step: run-qadadm-conv.p complete
   ```

   b. Locate the start and end of the qaddb conversion in the `conversion.log.` Search for:

   ```
   Executing step: run-qaddb-conv.p
   Executing step: run-qaddb-conv.p complete
   ```

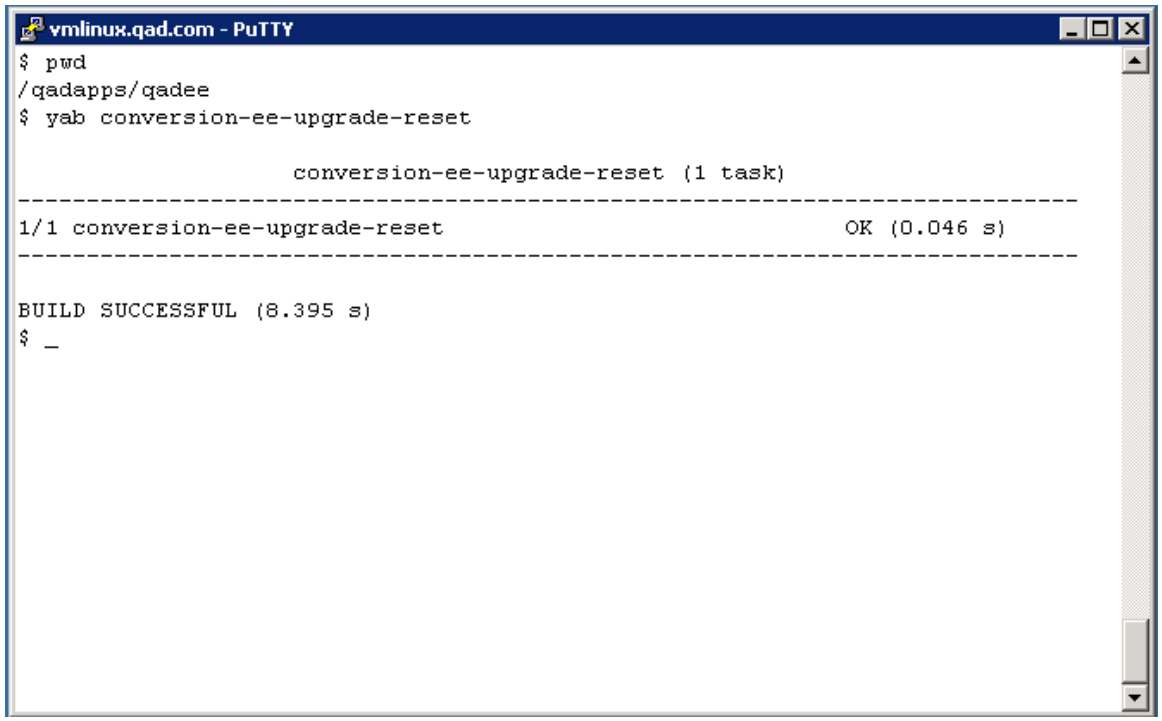
Rerun the Upgrade (optional)

If the upgrade did not complete successfully and it terminated prematurely, you must first determine the root cause of the problem and correct it in the source environment. Once the problem has been resolved, follow these steps to restart the upgrade.

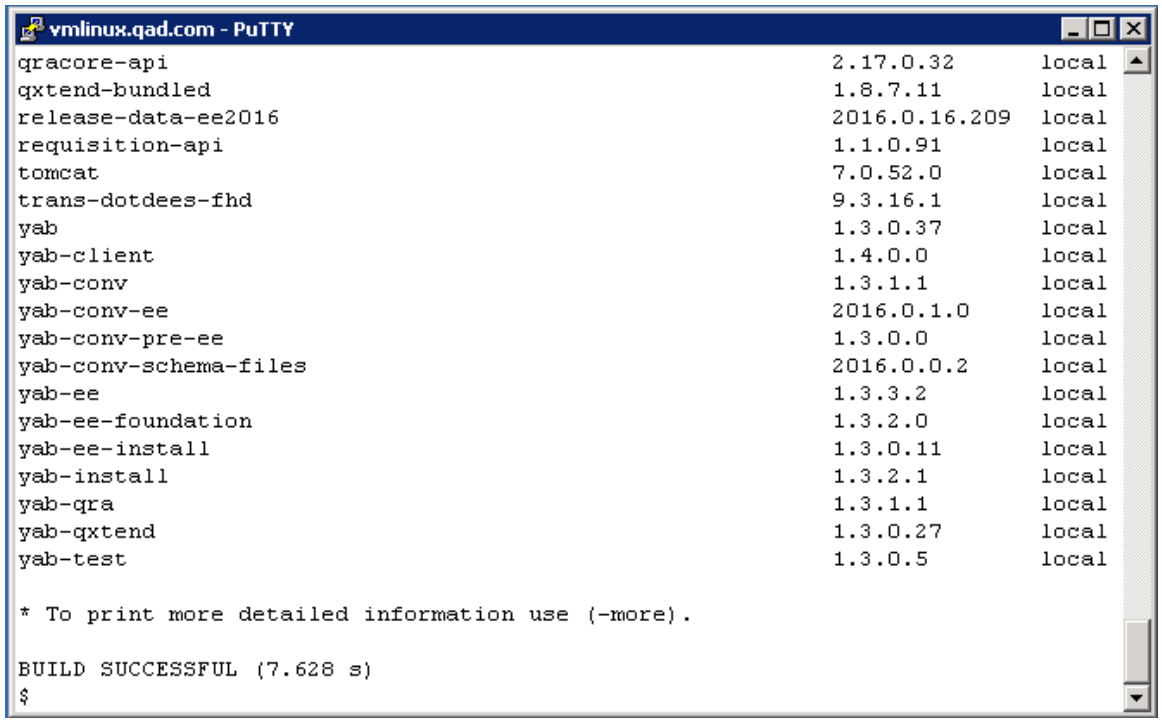
1. Restore the source databases
2. Run the following YAB commands to reset the upgrade and refresh the environment:

   a. `$ cd /qadapps/qadee`

   b. `$ yab conversion-ee-upgrade-reset`



c. `$ yab –r info`



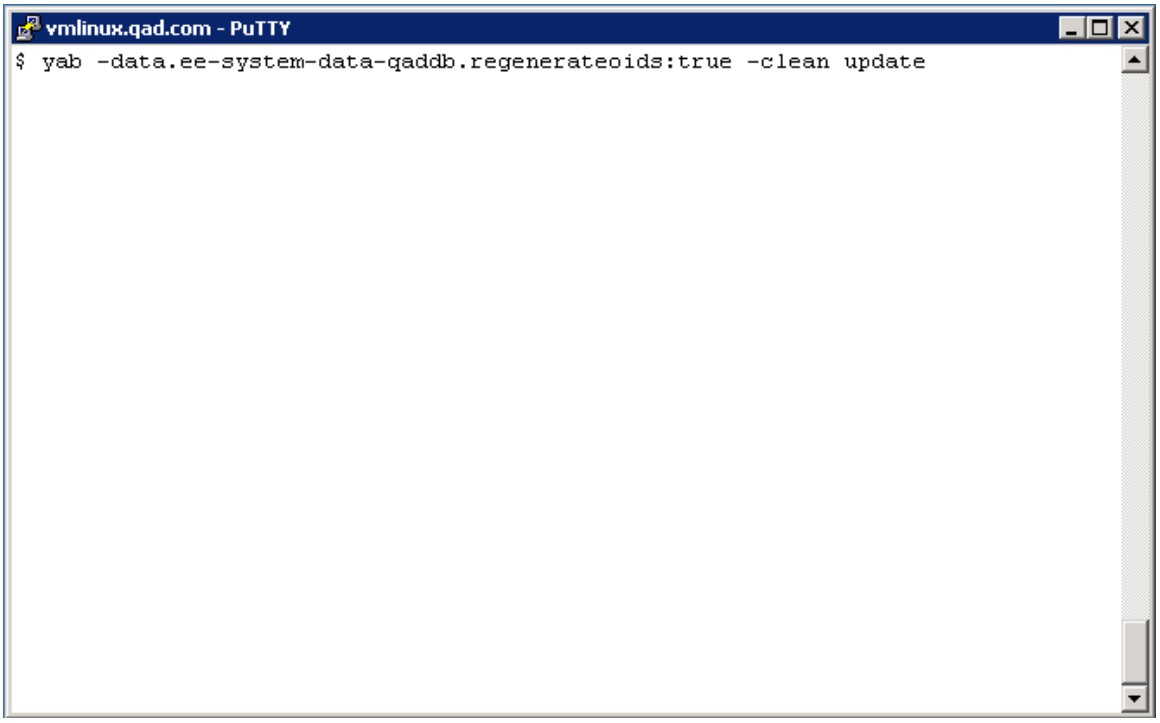
3. Rerun the upgrade:

   `$ yab conversion-ee-upgrade`

Execute YAB Update

Once the upgrade has completed successfully, run a YAB update to ensure that environment is internally consistent and reload the system data. Use the following command:

```
$ yab –data.ee-system-data-qaddb.regenerateoids:true –clean update
```



Console output will be similar to that shown below:

