



QAD Adaptive Applications

Installation Guide **QAD Configurator**

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QAD Configurator 5.11
March 2020

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Configurator Installation Guide

Change Summary

Product Name Changes

Starting in September 2019, the new name for QAD’s complete portfolio of products is QAD Adaptive Applications. Additionally, QAD Adaptive ERP is the new name for QAD’s flagship ERP solution. QAD Adaptive ERP includes the functionality previously associated with QAD Cloud ERP and QAD Enterprise Applications - Enterprise Edition, plus the QAD Enterprise Platform and Adaptive UX which resulted from the Channel Islands program. Going forward, the terms QAD Enterprise Applications, QAD Cloud ERP, and Channel Islands will be deprecated but will remain in previous documentation and training materials. QAD’s intention is to—as soon as possible—eliminate the use of the deprecated terms going forward.

Change Summary

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

Date/Version	Description	Reference
March 2020/5.11 Rev 2	Added schema installation data to Prerequisites section of Chapter 1.	Page 3
October 2019/5.11 Rev1	Added version clarification to Chapter 4 overview.	Page 46
September 2019/5.11	Rebranded for version 5.11	
September 2018/5.10	Updated the steps of installing or upgrading QAD Configurator using YAB	Page 46
September 2017/5.9 Rev1	Updated the steps of installing or upgrading QAD Configurator using YAB	Page 46
March 2017/5.9	Updated the Compile QAD Configurator AppServer API Files (Progress Database) section	Page 25
	Updated the data definition files	Page 41
	Updated the Installing or Upgrading QAD Configurator using YAB section	Page 46
	Described how to upgrade QAD Configurator from a non-YAB version to a YAB version	Page 49
July 2016/5.8.1 Rev1	Updated the section Installing QAD Configurator Using YAB	Page 45
March 2016/5.8.1	Updated the data definition files	Page 41
	Introduced installing Configurator in a YAB environment	Page 45
September 2015/5.8	Updated the positions of cpd directories in PROPATH	Page 25, Page 29, and Page 33
	Updated the data definition files	Page 41

Date/Version	Description	Reference
March 2015/5.7	Updated information on modifying Configurator AppServer API file	Page 23
	Updated the PROPATH for .NET UI AppServer configurations	Page 28
	Updated the PROPATH for WebSpeed service configurations	Page 30
	Updated the data definition files	Page 41
	Added information on how to disable Configurator in the Troubleshooting section	Page 53
March 2015/5.6-Rev 2	Updated the QXtend Adapter version in the Software Prerequisites section	Page 2
September 2014/5.6-Rev1	Updated the data definition files	Page 41
September 2014/5.6	Updated the Progress version in the Software Prerequisites section	Page 2
	Added information on modifying the -cpstream parameter for installing a non-English version of QAD Configurator	Page 17
	Added a step to copy files containing customized functions from the previous QAD Configurator environment	Page 40
	Added some troubleshooting items	Page 53
March 2014/5.5	Rebranded for 5.5	-
	Added Converting Comments to Translation	Page 44
September 2013/5.4.1	Rebranded for 5.4.1	-
March 2013/5.4	Rebranded for 5.4	-
	Updated steps of modifying WebSpeed configurations	Page 30
	Modified the WebSpeed Workshop URL	Page 31
September 2012/5.3.1	Updated the list of supported versions of QAD Enterprise Applications	Page 2
	Added supported QAD .NET UI version	Page 4
	Updated step c and Fig. 1.18	Page 23
	Added a step of running start.cpd	Page 20
	Updated the QAD Enterprise Application versions	Page 23
	Updated step 4 for Compile QAD Configurator AppServer API Files (Oracle Database)	Page 26
	Updated steps of Modify Webspeed Configuration	Page 29
	Updated the steps for Updating Database Schema and the list of the data definition files	Page 41
	Added a note for the step of connecting to Configurator production database	Page 42
	Added a troubleshooting item	Page 53
March 2012/5.3	Added a section on integrating with QAD CSS	Page 48
September 2011/5.2.2	Rebranded for 5.2.2	-
	Added Tomcat version	Page 2
	Deleted the step for installing Configurator process maps	-
	Updated the section on modifying QAD Configurator AppServer API file	Page 23
	Updated the compile path for both Progress Database and Oracle Database	Page 25 Page 27
	Updated the section on modifying the parameter file	Page 28
	Updated the PROPATH for modifying Webspeed configurations	Page 29
	Added Tomcat support for modifying Webspeed configurations	Page 30

Date/Version	Description	Reference
	Added debugging steps for Configurator installation	Page 33
	Updated the Appendix for Configurator APIs	Page 55
	Updated the Appendix for Troubleshooting	Page 51



Installation Overview

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Introduction

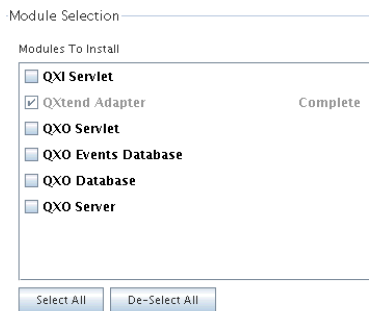
QAD Configurator is a rule-based product configuration and guided selling tool. It allows make-to-order and assemble-to-order companies to quickly and efficiently create sales orders based on specific customer requirements and ultimately manufacture and fulfill complex, customized products and services. It is an add-on module to QAD Enterprise Applications (QAD EA) and provides flexible and powerful product configuration and computer-aided order entry capabilities.

Software Prerequisites

Install the following components before you install QAD Configurator. See related documentation for information on how to install these components.

- OpenEdge 10.1C 01 or later with at least the following components:
 - OE Application Server Basic or OE Application Server Enterprise
 - OE Enterprise RDBMS
 - 4GL Development System
- One of the following supported versions of QAD Enterprise Applications:
 - MFG/PRO eB2.1 SP4
 - QAD 2007 and QAD 2007.1
 - QAD 2008 SE (Standard Edition) and later
 - QAD 2008.1 EE (Enterprise Edition) and later
- One of the following:
 - Apache web server 2.0 or later
 - Tomcat 5.5.x or 6.0.x
- QXtend Adapter 1.6.2 or later, when you want to use the function of creating item site records
- QXtend Adapter 1.8.3 or later, when you want to use the function of creating variant supplier items

Fig. 1.1
QXtend Adapter Module Selection



Installing QAD Configurator on an Oracle database also requires the following components:

- OpenEdge 10.1C01 or later
- Oracle

Configure New Database Storage Areas

Installing QAD Configurator requires the inclusion of new database storage areas for the new schema.

Existing installations with Custom Structure File

If upgrading an existing Configurator environment that has been configured with a customized database structure file, the custom structure file must be modified to append new required storage areas for this release.

To identify the configured structure file run the command

```
> yab config db.configurator.structurefile
```

The following areas must be added if a custom structure is in use

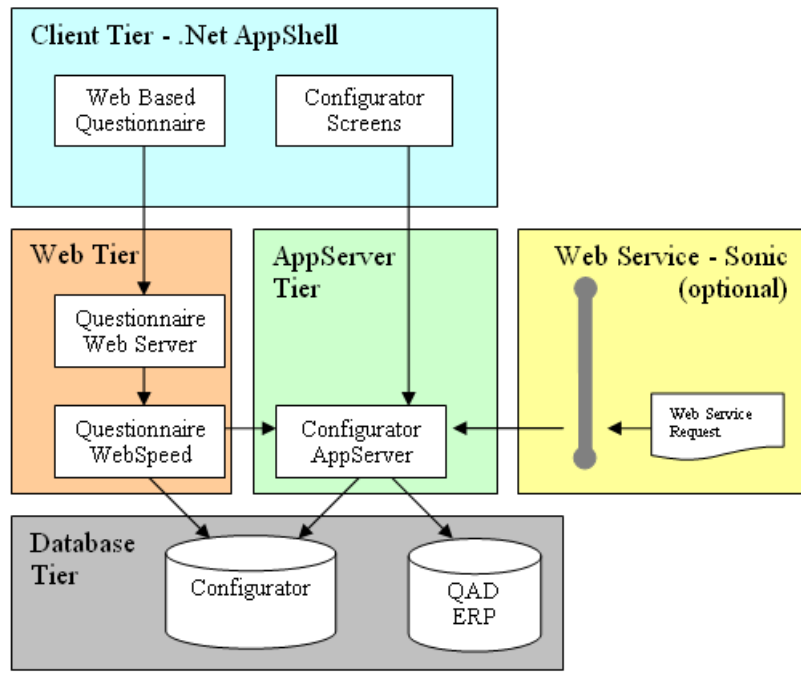
```
d "CFG":7,64;64 . f 5120
d "CFG":7,64;64 .
#
d "CFG_IDX":8,1;8 . f 5120
d "CFG_IDX":8,1;8 .
```

Deployment and Hardware Requirements

Depending on how you installed QAD .NET UI, you could have a single-tier or multi-tier QAD .NET UI environment. Either way, the default deployment of QAD Configurator places QAD Configurator databases on the QAD Enterprise Applications database server and its application files on the QAD .NET AppServer.

Questionnaire .NET UI is one of Configurator's components. To implement the Questionnaire .NET UI, install Configurator AppServer API and Configurator .NET plug-in files on the QAD .NET UI AppServer, then install Configurator WebSpeed files on the Apache web server.

Fig. 1.2
QAD Configurator Deployment Architecture



Client Tier (QAD .NET UI)

QAD Configurator supports QAD .NET UI 2.7.1 or later versions. Configurator has been rewritten to run as native Windows screens run within the QAD .NET UI. To be compatible with other web-based applications such as QAD CSS, Configurator Questionnaire is also launched within the .NET UI but uses web-based technologies (HTML, JavaScript, and AJAX).

Web Tier

The web tier is responsible for managing the web-based questionnaire. Depending on the volume of traffic that goes through the questionnaire, this tier can either have a dedicated server or be combined with the AppServer tier.

The web tier simply responds to users' web requests; there not many processing, disk, or memory requirements on this server. Use a low-end server consisting of a single dual-core CPU, 2-GB memory, and 60-GB hard drive.

AppServer Tier

The AppServer tier executes the business logic for the Configurator. It is responsible for handling Questionnaire business logic, Configurator screen business logic, and web service API processing.

Generally, the use of the Configurator focuses on the Questionnaire, as the Configurator .NET screens are used intermittently to set up and maintain the configurations. Typically the web services are not enabled. In this scenario, use a server consisting of two dual-core CPU, 4-GB memory, and 60-GB hard disk.

As mentioned previously, if the use of the Questionnaire does not create excess load on this server, the server can be shared with the web tier. Otherwise, have the web tier on its own server.

Database Tier

The database tier hosts the database servers used to access the Configurator and QAD Enterprise Applications databases. Since QAD Enterprise Applications databases typically have been already deployed to an optimal server, we recommend the Configurator database server deployed on the same server. If there are concerns about overloading the existing QAD EA database server, a separate server can be configured for this database or the database server could be configured on the AppServer machine. If a separate server is desired, use a server consisting of a two dual-core CPU, 4-GB memory, and 100-GB hard drive.

Web Service Tier

The optional web service tier is used to host Sonic, the component that exposes Configurator APIs as web services. The server does little in that it provides the web server used to host the web services and routes the requests through the Configurator AppServer. If there is not excessive use of these web services, Sonic can be deployed on the AppServer server. If there is extensive use of web service calls, use a dedicated server with a single dual-core CPU, 2-GB memory, and 60-GB hard drive.

QAD Configurator Installation

Installing QAD Configurator requires several prerequisites.

Note See “Software Prerequisites” and “Deployment and Hardware Requirements” on page 3 for the prerequisite information.

The installation steps are:

- 1 Install the prerequisite components.
- 2 Install QAD Configurator using the installer.

Important

- For installation with MFG/UTIL, see “Installing QAD Configurator Using MFG/UTIL” on page 7.
- For installation with YAB, see “Installing or Upgrading QAD Configurator Using YAB” on page 45.



Installing QAD Configurator Using MFG/UTIL

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Overview

This chapter covers the instructions on installing QAD Configurator using MFG/UTIL. MFG/UTIL is an installation and system management tool of QAD.

If you are going to install QAD Configurator on QAD EE 2016 with YAB, see “Installing or Upgrading QAD Configurator Using YAB” on page 45.

QAD Configurator can be deployed on both Progress and Oracle databases, depending on the existing database environment of your QAD Enterprise Applications implementation. This chapter provides installation instructions for both these two deployment scenarios. Most steps are identical for Progress and Oracle implementations. Where steps differ, follow the instructions to use database-specific steps.

Configurator Installation Preparations

We recommend that you plan your Configurator installation and collect the following information or environment parameters in a worksheet before installing Configurator. Replace the examples with your working environment parameter values. You need this information during later installation process.

Table 2.1
Configurator Installation Worksheet

Prerequisite Information	Variable	Example
Progress installation directory	<i>ProgressInstallDir</i>	/dr01/progress/dlc101c
QAD Enterprise Applications database server installation directory	<i>QADERPInstallDir</i>	/dr01/qad/qad2009e
Tomcat server installation directory	<i>TomcatInstallDir</i>	/dr01/tomcat
QAD .NET UI configuration name that identifies the environment in which you want to install Configurator. Desktop UI systems are typically built for multiple environments: pilot, production, training, development, and so on. Each QAD UI system (Desktop-only, or combined Desktop and QAD .NET UI) has a unique name, which is reflected in the Tomcat directory structures: <i>TomcatInstallDir/webapps/qaduiConfig</i>	<i>qaduiConfig</i>	QADUIDemo

Prerequisite Information	Variable	Example
QAD .NET UI (AppShell) version. You can find this information in the <code>version.net</code> file under the Tomcat server installation directory.		2.8.2
QAD .NET UI AppServer Service Name. You can find this information by selecting Help View Configuration from the QAD Enterprise Applications .NET UI.	<code>qaduiASService</code>	qadui_ASqaddemo
QAD .NET UI parameter file The location of this file can be found in the <code>ubroker.properties</code> file under the <code>ProgressInstall/Properties</code> directory. Under the <code>[UBroker.AS.qaduiASService]</code> section in the file, you can find the full path to <code>base-live-set.pf</code> specified after <code>-pf</code> as a part of the server startup parameters.		<code>/dr01/qdt/envs/qaddemo/scripts/base-live-set.pf</code>
QAD Enterprise Applications code page and collation		utf-8 ICU-UCA
QAD Configurator License Code to register the product and complete the installation		

Installing QAD Configurator on an Oracle database also requires the following information:

Prerequisite Information	Variable	Example
Oracle service network port. Typically, it is 1521.	<code>\$OraclePort</code>	1521
Oracle instance SID where QAD Enterprise Applications is installed.	<code>\$OracleSID</code>	
Oracle DBA username/password combination.	<code>\$OraDBAUser/</code> <code>\$OraDBAPass</code>	admin/qad
Oracle username/password for the QAD Enterprise Applications schema owner. Typically, the username/password combination is qad/qad.	<code>\$OraMFGUser/</code> <code>\$OraMFGPass</code>	qad/qad

Installation Steps

The QAD Configurator installation requires the following general steps:

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- Install QAD Configurator Files
- Create QAD Configurator Databases (Progress Database)
- Create Start/Stop Scripts for the Configurator Production Databases
- Modify QAD Configurator AppServer API File
- Configure the Site-Specific Data Creation Feature
- Configure the Site-Specific Data Creation Feature
- Modify the QAD .NET UI Parameter File (Progress Database)
- Modify the QAD .NET UI AppServer Configuration
- Modify WebSpeed Configurations
- Set Up QAD Configurator .NET UI Plug-In
- Register QAD Configurator
- Configure WebSpeed Settings
- Modify Desktop Telnet Scripts
- Set QAD Desktop Connection Timeout (Optional)
- Integrate with Trade Management (Optional)
- Integrate With QAD CSS (Optional)
- Set QAD Desktop Connection Timeout (Optional)

Install QAD Configurator Files

The installation steps assume that you have a single-tier QAD Enterprise Applications environment and are installing all the following Configurator components on one server:

- QAD Configurator database, system data, and toolset files
- QAD Configurator AppServer code
- QAD Configurator WebSpeed code
- QAD Configurator .NET plug-in
- QAD Configurator Browse Collections

If you are installing the components separately on several machines, run the installation script on each machine and enter appropriate values when prompted to install the corresponding components.

- 3 Launch the installation script located under the `install` directory in the installation media:

```
./install.ksh
```

- 4 Read the on-screen instructions and use the following table to enter the appropriate values for script execution.



Table 2.2
Install Script Steps

At this step	To do
Welcome screen	Press Enter; then press the SPACEBAR to read the license agreement or press q to jump to the end of the license agreement.
Do you accept all the terms of the preceding license Agreement?	Enter y.
Where do you want to save the install log file?	Accept the default or enter a new location; for example, /dr01/qad/instlog. If the installation log directory you provided does not exist, the script prompts you to create it. Enter y.
Unable to locate instcpd.ini. ... Continue anyway?	If the script cannot locate the file instcpd.ini, it asks you whether to proceed. If it is your initial QAD Configurator install, Enter y here to create this file. If it is an existing install, consider answering n here and locating the file. It contains useful previous installation information.
Enter Progress installation directory.	Enter the directory path where Progress is installed; for example, /dr01/progress/dlc.
Do you wish to install database, system data, and toolset files for Configurator now?	Enter y. If you do not want to install the components on the current machine, enter n.
<ul style="list-style-type: none"> Where do you want to install QAD Configurator database server? 	Enter the directory where you want to install QAD Configurator database server; for example, /dr01/qad/configurator. It is identified as <i>CfgDBSvrInstallDir</i> in this guide. When creating the directory, the install script automatically creates cpd/database subdirectories under it.
<ul style="list-style-type: none"> Which edition of QAD Enterprise Applications are you running? 	Enter the edition of QAD Enterprise Applications you are running: EE for Enterprise Edition and SE for Standard Edition.
Do you wish to install QAD Configurator AppServer files now?	Enter y. If you do not want to install the component on this machine, enter n.
<ul style="list-style-type: none"> Where do you want to copy the QAD Configurator AppServer files? 	Enter the directory where you want to install QAD Configurator AppServer API files; for example, /dr01/qad/configurator. It is identified as <i>CfgAppServerDir</i> in this guide. When creating the directory, the install script automatically creates a cpd subdirectory under it.
Do you wish to install QAD Configurator WebSpeed files now?	Enter y. If you do not want to install the component on this machine, enter n.

At this step	To do
<ul style="list-style-type: none"> Where do you want to copy the QAD Configurator WebSpeed files? 	<p>Enter the directory where you want to install the Configurator WebSpeed files; for example, <code>/dr01/qad/configurator</code>.</p> <p>It is identified as <code>CfgWebSpeedDir</code> in this guide.</p> <p>When creating the directory, the install script automatically creates a <code>cpd</code> subdirectory under it.</p>
Do you wish to install QAD .NET UI plug-ins for Configurator now?	<p>Enter <code>y</code>.</p> <p>If you do not want to install the component on this machine, enter <code>n</code>.</p>
<ul style="list-style-type: none"> Enter the directory where QAD .NET UI plug-ins are located. 	<p>Enter the directory where you want to install QAD .NET plug-in for Configurator: <code>TomcatInstallDir/webapps/qadhome/packages</code>.</p>
<ul style="list-style-type: none"> Which QAD .NET UI version are you running? 	<p>Specify the version of QAD .NET UI you are running. You can look up this information in the <code>version.net</code> file under the Tomcat server installation directory.</p>
Do you wish to install QAD Configurator Browse Collections now?	<p>Enter <code>y</code>.</p> <p>If you do not want to install the component on this machine, enter <code>n</code>.</p>
<ul style="list-style-type: none"> Enter the directory where QAD .NET UI browse collections are located. 	<p>Enter the directory where you want to install Configurator browse collection files. Typically, it is <code>TomcatInstallDir/webapps/qadhome/configurations/qaduiConfig</code>.</p>
<ul style="list-style-type: none"> Which QAD .NET UI version are you running? 	<p>Specify the version of QAD .NET UI you are running. You can look up this information in the <code>version.net</code> file under the Tomcat server installation directory.</p>
Proceed using these values?	<p>If the values you entered are correct, accept the default. Otherwise, enter <code>n</code> and then you are back to the point where you specified the Progress directory so you can modify previous values.</p>

5 The install script executes. When execution is complete, press Enter to end the script.

6 At the end of the script, the name and location of the installation log file is displayed. You can open the log file in a text editor to check for errors if necessary.

Create QAD Configurator Databases (Progress Database)

Use these steps if you are installing QAD Configurator on Progress database. For Configurator Oracle implementation, see “Create QAD Configurator Databases (Oracle Database)” on page 17.

Create the QAD Configurator Empty Database

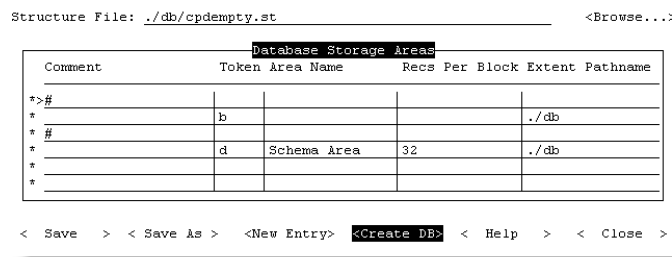
The `cpdempty` database is used to create the production QAD Configurator database.



Use the utility program that comes with QAD Configurator to perform the following steps:

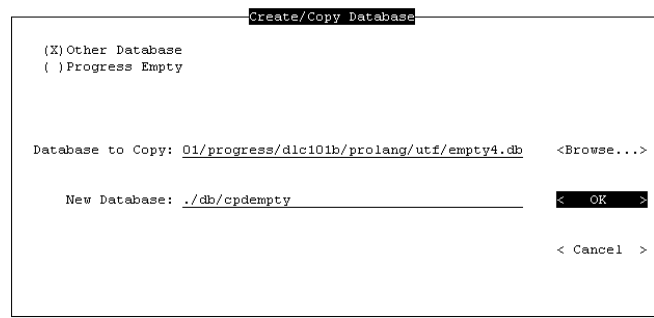
- 1 Launch MFG/UTIL for Configurator. Execute `cpdutil` from `CfgAppServerDir/cpd/`.
Note MFG/UTIL assumes that the QAD Enterprise Applications database uses the utf-8 code page. If your QAD EA database uses a different code page, open `cpdutil` and modify the startup parameters — `-cpinternal`, `-cpstream`, `-pcoll` — to have the same code page that your QAD EA database uses.
Note There can be a warning message saying that the code page you use is not supported for TTY clients. You can ignore it.
- 2 The MFG/UTIL screen appears. Select `Configure|QAD ERP Guided Setup`.
- 3 The Operation Sets screen appears. Select `Create Configurator Progress Empty DB` from the Operation Set drop-down list; then choose `Run Set`.
- 4 The QAD Database Builder screen is displayed. Choose `Create DB`.

Fig. 2.1
QAD Database Builder



- 5 The Create/Copy Database dialog box appears. Choose other database and specify an empty database that uses the same code page as your QAD Enterprise Applications database to copy. There is an empty database for each locale in the `ProgressInstallDir/prolang` directory; for example, `/dr01/progress/dlc/prolang/eng/empty4` for the ISO8859-1 code page.
 If you want to use the UTF-8 code page, specify `ProgressInstallDir/prolang/utf/empty4.db` to copy.
 For information on creating databases using other code pages, see Progress documentation.
 When finished, choose OK.

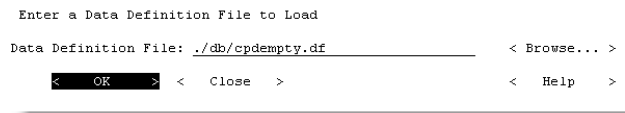
Fig. 2.2
Create Empty Database



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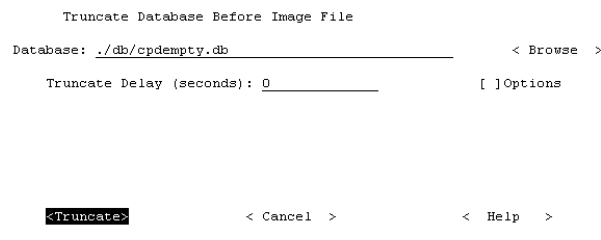
- 6 The database creation process begins. The QAD Create Database Monitor screen displays progress and error status. When database creation is complete, choose Close to exit.
- 7 You return to the QAD Database Builder screen; choose Close to exit.
- 8 The Connect Database screen appears. Connect to `cpdempty.db` under `CfgDBSvrInstallDir/cpd/db` and choose OK.
- 9 The Load Data Definitions screen is displayed. The database schema files (`.df`) loaded contain the table, field, and index definitions for your QAD Configurator database. Choose OK.

Fig. 2.3
Load the QAD Configurator Data Definitions



- 10 A load screen appears. When the load is complete, choose Close in the QAD Log screen.
- 11 The Truncate Database Before Image File screen appears. Choose Truncate.

Fig. 2.4
Truncate BI File



- 12 The truncate process begins showing progress and error status. When file truncate is complete, choose Close to exit.
- 13 You return to the Operation Sets screen. Choose Close to exit.

The QAD Configurator empty database is created.

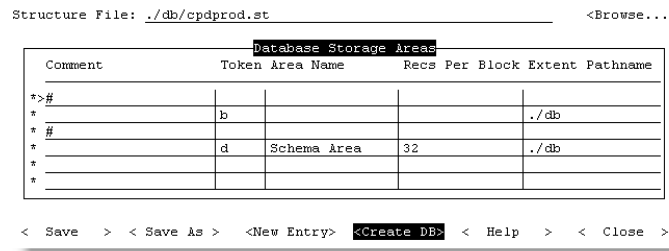
Build the QAD Configurator Production Database

These steps create a production database.

- 1 Select Configure|QAD ERP Guided Setup.
- 2 The Operation Sets screen is displayed. Select Create Configurator Progress Production DB from the Operation Set drop-down list; then choose Run Set.

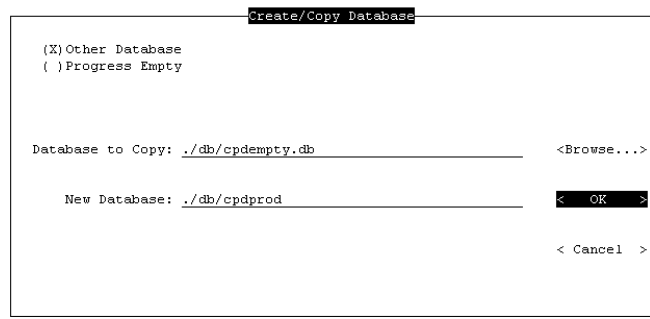
3 The QAD Database Builder screen is displayed. Choose Create DB.

Fig. 2.5
QAD Database Builder



4 The Create/Copy Database dialog box appears. Choose OK.

Fig. 2.6
Create Production Database



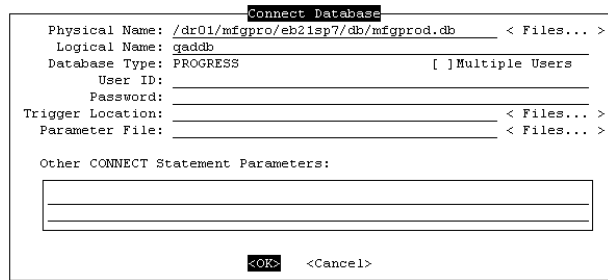
5 The database creation process begins. The QAD Create Database Monitor screen displays showing progress and error status. When database creation is complete, choose Close to exit.

6 You return to the QAD Database Builder screen; choose Close to exit.

7 The Connect Database screen appears. Connect to QADERPInstallDir/db/mfgprod.db and choose OK.

Note Close all other applications connected to mfgprod.db or select the Multiple Users mode.

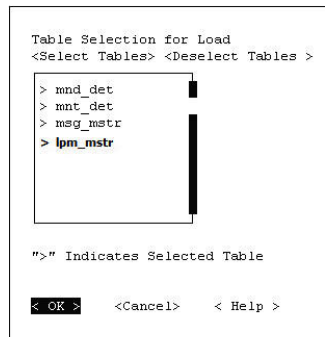
Fig. 2.7
Connect to the QAD Enterprise Applications Production Database



8 The QAD Log screen is displayed. Choose Close.

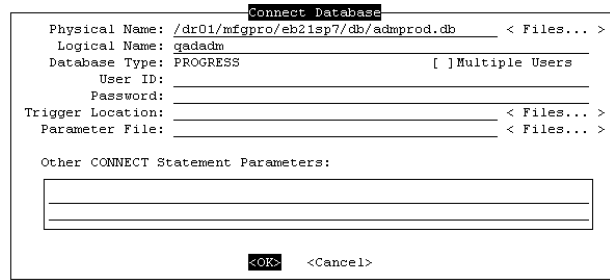
- 9 The Table Selection for Load screen is displayed. With all the tables in the list selected, choose OK.

Fig. 2.8
Table Selection for Load



- 10 The QAD Log screen displays the records of the selected tables that are being processed. When the data load is complete, choose Close to exit.
- 11 The Connect Database screen appears. Connect to *QADERPInstallDir/db/admprod.db* and choose OK.

Fig. 2.9
Connect to the QAD Enterprise Applications Administration Database



- 12 The QAD Log screen appears. Choose Close.
- 13 The Table Selection for Load screen appears. With all the tables in the list selected, choose OK.
- 14 The QAD Log screen is displayed. Choose Close.
- 15 The Connect Database screen is displayed. Connect to *CfgDBSvrInstallDir/cpd/db/cpdprod.db* and choose OK.
- 16 The QAD Log screen is displayed. Choose Close.
- 17 The Table Selection for Load screen appears. With all the tables in the list selected, choose OK.
- 18 The QAD Log screen appears. Choose Close.
- 19 The Truncate BI File screen appears. Choose Truncate.

- 20** The truncate process begins. The QAD Database Monitor screen displays progress and error status. When file truncate is complete, choose Close to exit.
- 21** You return to the Operation Sets screen. Choose Close to exit.
- 22** If you are not installing the English language version, manually load the .d files under `./LanguageCode/mfg` and `./LanguageCode/adm` into the `mfgprod.db` and `admprod.db` databases respectively, where *LanguageCode* is the implemented language code. Also, change the `-cpstream` parameter in `cpdutil` to the corresponding code page. (You can find the code page information at the end of the .d file under the `./LanguageCode/adm` directory.)

Example The code page value for the language code `ch` is `cp936` in the .d file; so you set the value of `-cpstream` to `cp936` in `cpdutil`.

Supported language codes are listed as follows:

Language Code	Language
ch	Simplified Chinese
tw	Traditional Chinese
cs	Castilian Spanish
ls	Latin American Spanish
du	Dutch
fr	French
ge	German
it	Italian
jp	Japanese
pl	Polish
po	Portuguese

The QAD Configurator production database is created.

Create QAD Configurator Databases (Oracle Database)

Use these steps if you are installing QAD Configurator on Oracle database. For Configurator Progress implementation, see “Create QAD Configurator Databases (Progress Database)” on page 12.

Create Oracle schema

- 1** Modify `CfgDBSvrInstallDir/cpd/db/tablespace.sql` based on your system installation environment.

```

/*****
CREATE TABLESPACE configurator
DATAFILE '{ORACLE_BASE}/oradata/{DB_NAME}/configurator.dbf' SIZE 25M
AUTOEXTEND ON NEXT 25M MAXSIZE UNLIMITED
EXTENT MANAGEMENT LOCAL
ONLINE;
ALTER USER qad QUOTA UNLIMITED ON configurator;
*****/

```

Replace the file path in bold with the absolute path of the new Oracle DataFile.

18 QAD Configurator Installation Guide

Replace the username in bold with the Oracle username *\$OraMFGUser*. If this username has been modified, replace all occurrences of default FOREIGN-OWNER “QAD” in file *CfgDBSvrInstallDir/cpd/db/oraprocon.dcf* with the current username.

- 2 Run Oracle SQLPlus and connect to the QAD Enterprise Applications schema instance as DBA. Run script *CfgDBSvrInstallDir/cpd/db/tablespace.sql*.

```
[oracle@vmlinux ~]$ sqlplus $OraDBAUser/$OraDBAPass@localhost:$OraclePort/$OracleSID as sysdba
SQL> @CfgDBSvrInstallDir/cpd/db/tablespace.sql
```

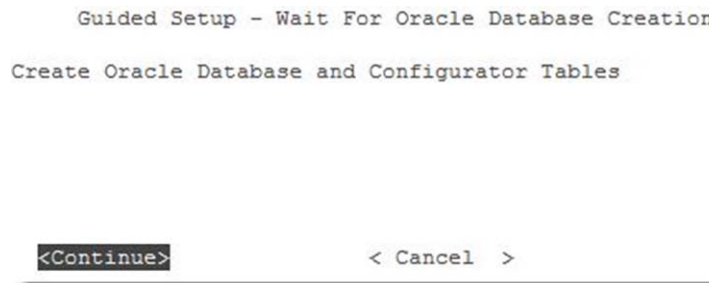
- 3 Run Oracle SQLPlus and connect to the instance as QAD Enterprise Applications schema owner. Run script *CfgDBSvrInstallDir/cpd/db/procon.sql* to create Configurator schema.

```
[oracle@vmlinux ~]$ sqlplus $OraMFGUser/$OraMFGPass@localhost:$OraclePort/$OracleSID
SQL> @CfgDBSvrInstallDir/cpd/db/procon.sql
```

Create Progress Schema Holder

- 1 Run CPDUtil from *CfgDBSvrInstallDir/cpd*.
- 2 Create Configurator Oracle empty database.
 - a In the CPDUtil main screen, choose Configure|QAD ERP Guided Setup|Create Configurator Oracle Empty DB.
 - b Wait until Oracle database creation is complete. If no error occurs in the process, choose Continue.

Fig. 2.10
Oracle Database Creation



- c Create Configurator Oracle schema holder empty database. Use the default or specify a new physical database path and file name, referred to as *\$EMPTY_ORASH_DB* in subsequent steps.

Fig. 2.11
Create Database

- d Connect the empty database (\$EMPTY_ORASH_DB) in the single-user mode. Accept all the defaults if you did not change the database path and file name in the previous step.

Fig. 2.12
Connect Empty Database

- e Load schema file into the empty database. Enter `CfgDBSvrInstallDir/cpd/db/oraprocon.df` in the Data Definition File field.

Fig. 2.13
Load Data Definition File

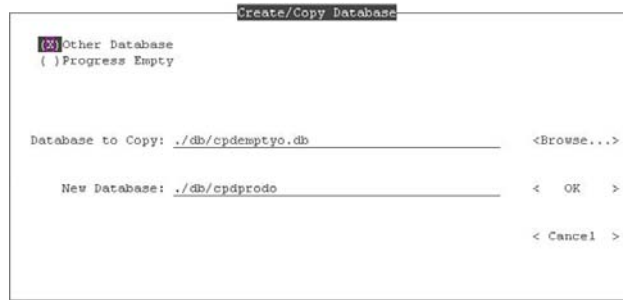
- f Truncate BI for the empty database.

Fig. 2.14
Truncate BI



- 3 Create Configurator Oracle production database from the empty database.
 - a In CPDUtil main screen, choose Configure|QAD ERP Guided Setup|Create Configurator Oracle Prod DB.
 - b In the Database to Copy field, enter \$EMPTY_ORASH_DB. Specify the database path and file name for the new production database in the New Database field, referenced as \$PROD_ORASH_DB in subsequent steps.

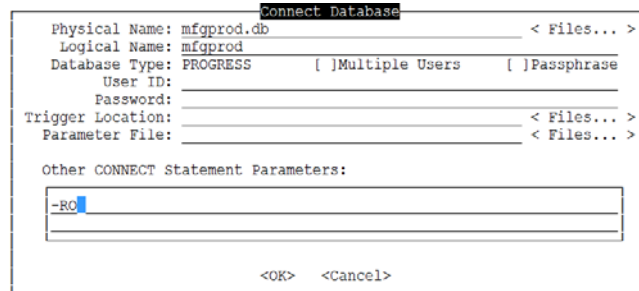
Fig. 2.15
Create Configurator Oracle Production Database



- c Connect to the QADDB database to load system data. Make sure that the logical name is mfgprod; otherwise, errors occur.

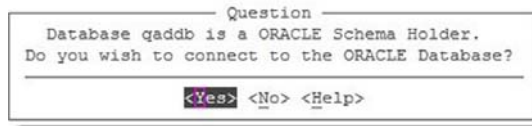
If you are using single-user mode to connect to the schema holder, we recommend that you connect the QADDB database using parameter-RO, read-only session. Otherwise, truncate your QADDB database's BI file after loading the data.

Fig. 2.16
Connect to QADDB



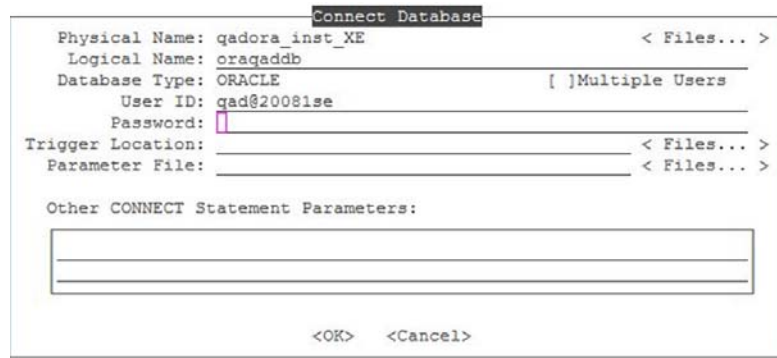
- d If the database is an instance of Oracle DataServer, choose Yes in the Oracle connection confirmation window.

Fig. 2.17
Oracle Database Connection Confirmation



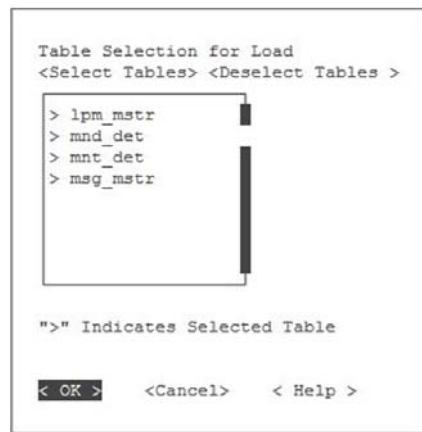
- e Connect to the Oracle database instance. Enter $\$OraMFGUser@\$OracleSID$ as user ID and $\$OraMFGPass$ as Password.

Fig. 2.18
Connect Oracle Database



- f In the Table Selection screen, select all tables and choose OK.

Fig. 2.19
Select Tables



- g Repeat steps c through f for the QADADM to load admin data.
- h Repeat steps c through f for the Configurator production database. Enter $\$PROD_ORASH_DB$ in the Physical Name field and use mfgprod as the logical name when connecting the database. Select all tables for load in the Table Selection screen.

Create Start/Stop Scripts for the Configurator Production Databases

- 1 For multi-tier deployment of Configurator, register the Configurator production database server as a service in the `/etc/services` file. For example, add the following line to the file:

```
cfgproddb 30024/tcp #Configurator production DB
```

Note Skip this step if you are installing all the Configurator components on a single machine.

- 2 Create the Configurator database start/stop script files. Two sample files, `start.cpd` and `stop.cpd`, were copied from the `cpd_db` directory in the installation media to the `CfgDBSvrInstallDir/cpd` directory by the install scripts. Replace key variables in these files with correct values to reflect your environment parameter values on your server. Key variables to replace are highlighted in bold as follows:

- `start.cpd`

```
#!/bin/sh
# Script to start database servers.
# tokens:
# &DLC = Progress Directory
# &LOOP-DB-START = start of database loop
# &LOOP-DB-END = end of database loop
# &START-SERVER = command line to start current DB in database loop
DLC=ProgressInstallDir; export DLC
PATH=$PATH:$DLC; export PATH
PROMSGS=$DLC/promsgs; export PROMSGS
PROTERMCPAP=$DLC/protermcap; export PROTERMCPAP
$DLC/bin/_mprsrv CfgDBSvrInstallDir/cpd/db/cpdprod -L 8000 -c 350 -B 1000 -S
CfgProdDBServiceName -N TCP -cpinternal InternalCodePage -cpstream StreamCodePage
-cpcoll CollationTable
```

Note If you are installing all the Configurator components on a single machine, exclude the following parameters from the scripts:

```
-S CfgProdDBServiceName -N TCP
```

- `Stop.cpd`

```
#!/bin/sh
# Script to stop database servers.
# tokens:
# &DLC = Progress Directory
# &LOOP-DB-START = start of database loop
# &LOOP-DB-END = end of database loop
# &STOP-SERVER = command line to shut down current DB in database loop
DLC=ProgressInstallDir; export DLC
PATH=$PATH:$DLC; export PATH
PROMSGS=$DLC/promsgs; export PROMSGS
PROTERMCPAP=$DLC/protermcap; export PROTERMCPAP
$DLC/bin/_mprshut CfgDBSvrInstallDir/cpd/db/cpdprod -by
```

ProgressInstallDir. The Progress installation directory.

CfgDBSvrInstallDir. The Configurator database server installation directory, not including the `cpd` directory.

CfgProdDBServiceName. The Configurator production database service name you registered in the `/etc/services` file in step 1.

InternalCodePage. The code page used in the memory; for example, ISO8859-1.

StreamCodePage. The code page used for stream I/O; for example, utf-8.

CollationTable. The collation used with the code page in the memory; for example, ICU-UCA.



For information on code pages and collation tables, see Progress documentation on *OpenEdge Development: Internationalizing Applications*.

- 3 Start Configurator Production Databases using the script `start.cpd`.

Modify QAD Configurator AppServer API File

From the directory where you installed Configurator .NET UI API files as described in “Install QAD Configurator Files” on page 10, open the `pcparm.i` file under the `cpd/cop_xrc` subdirectory. Specify `mfgpro` and `mfgversion` values according to your QAD Enterprise Applications version:

QAD Enterprise Applications Version	mfgpro Value	mfgversion Value
eB2.1 SP4	eb2.1	4
QAD 2007	eb2.1	5
QAD 2007.1	eb2.1	6
QAD 2008 Standard	eb2.1	7
QAD 2008.1 Standard	eb2.1	8
QAD 2008.1 EE	eb3	3
QAD 2009 EE	eb3	4
QAD 2009 SE	eb2.1	9
QAD 2009.1 EE	eb3	5
QAD 2010 EE	eb3	6
QAD 2010 SE	eb2.1	10
QAD 2010.1 EE	eb3	7
QAD 2011 EE	eb3	8
QAD 2011 SE	eb2.1	11
QAD 2011.1 EE	eb3	9
QAD 2012 SE	eb2.1	12
QAD 2012 EE	eb3	10
QAD 2012.1 EE	eb3	11
QAD 2013 EE	eb3	12
QAD 2013 SE	eb2.1	13
QAD 2013.1 EE	eb3	13
QAD 2014 EE	eb3	14
QAD 2015 EE	eb3	15

Configure the Site-Specific Data Creation Feature

You can specify, for each configurable item, whether to create item-site data with item master records when the system generates variants from the configurable item. If so, you can also specify which sites to use to create item-site data.

By default, this feature is disabled. You can switch it on by editing the `pcparm.i` file from `cpd/cop_xrc` under the directory where you installed Configurator .NET UI API files and setting the site-enabled variable to Yes.

Compile QAD Configurator AppServer API Files (Progress Database)

Use these steps if you are installing QAD Configurator on Progress database. For Configurator Oracle implementation, see “Compile QAD Configurator AppServer API Files (Oracle Database)” on page 26.

- 1 Launch MFG/UTIL for Configurator. Execute `cpdutil` from `CfgAppServerDir/cpd/`.

Note MFG/UTIL assumes that the QAD Enterprise Applications database uses the utf-8 code page. If your QAD EA database uses a different code page, open `cpdutil` and modify the startup parameters — `-cpinternal`, `-cpstream`, `-cpcoll` — to use the code page of your QAD EA database.

When there is a warning message saying that the code page you use is not supported for TTY clients, you can ignore it.
- 2 In MFG/UTIL, select Configure|Database Set Maintenance.
- 3 The Database Set Configuration screen is displayed. In the database set list, select CPDCompile.

Fig. 2.20
Database Set Configuration

Select a Database Set

Set Name	Set Description	Active	Start Parameters
>CPDCompile	CPD Compile Database	NO	-c 30 -d mdy -yy 1920 -Bt 350
Demonstration	Demonstration DBSet	YES	-rereadnolock -c 30 -d mdy -yy

<Edit Set > < New Set > <Copy Set > < Help > < Cancel > < OK >

Selected Set Overview

Physical	Description	Host	Service	Path
>mfgempty	Main MFG/PRO Empty D			/usr/local/qad
admempty	MFG/PRO Admin Empty			/usr/local/qad
cpdempty	Configurator Empty D			/usr/local/qad

< Edit DB > < New DB > <Delete DB>

- 4 Perform the following steps to configure the client view of the `cpdempty`, `mfgempty`, and `admempty` databases:
 - a Select a database and choose Edit DB.
 - b When the Client Database Parameters screen appears, complete the fields using the field descriptions as a guide.

Fig. 2.21
Edit Database Parameters

Database Parameters

Physical: mfgempty

Logical: qaddb

Description: Main MFG/PRO Empty Database

Path: /usr/local/qad

Connect Parm: -RO -trig triggers

Connection Type: Local [W]

Host: _____

Service: _____

Server Parm: _____

< OK > < Cancel > < Help > < New > < Delete >

Physical. Physical name of the database; if there is a default, accept it.

Path. If you choose a Local connection type, enter or accept the full path to the directory containing the database file. Specify the correct path for the three databases respectively with mfgempty being the first:

Physical	Description	Path
mfgempty	QAD Enterprise Applications empty DB	<i>QADERPInstallDir/db</i>
admempty	QAD Enterprise Applications admin DB	<i>QADERPInstallDir/db</i>
cpdempty	Configurator Empty DB	<i>CfgDBSvrInstallDir/cpd/db</i>

Accept the defaults for the rest of the fields.

Connection Type. If the Configurator database is installed on the same machine, choose Local; otherwise, choose ClientServer.

Host. If you choose a client/server connection, enter the host name of the machine where the database is located.

Service. For client/server connections, enter a service name for the database that corresponds to an entry in your `\etc\services` file. Make sure that you make the entries in the services file separately; the installation does not change this file.

- c When ready, choose OK to continue.
- 5 Once you have configured each database in the set, verify the database set in the Selected Set Overview frame. Click OK in the Database Set Configuration screen.
- 6 In MFG/UTIL, select Programs|Compile Procedures.
- 7 The QAD Compiler screen appears. Edit the compile PROPATH as follows :
`QADERPInstallDir/qxtend/xrc: QADERPInstallDir/xrc: QADERPInstallDir/qadui:
 CfgAppServerDir/cpd/cop_xrc`
CfgAppServerDir is where you installed Configurator AppServer files.
- 8 If you are not installing the English language version, change the language code to your installation language.
- 9 Make sure that the compile destination directory is different from the QAD EA installation directory to avoid overwriting standard QAD EA files.
- 10 Choose Compile. When you are prompted to overwrite the current directory, choose OK to proceed.
- 11 The QAD Compiler Summary Status screen is displayed. Choose Continue.
- 12 The QAD Log screen displays compile progress and error status. When the compile is complete, choose Close to exit.
- 13 Copy files `CfgAppServerDir/cpd/cop_xrc/pc409.p` and `CfgAppServerDir/cpd/cop_xrc/pc465.p` to the directory `QADERPInstallDir/qadui/com/qad/shell/browse/custom`.
- 14 Run the `./mkdt` command to compile the custom browses.

- 15 If you are using eB2.1 SP4, QAD 2007, or QAD 2007.1, recompile the QAD Enterprise Applications code and Desktop code with the following in the front of the PROPATH:

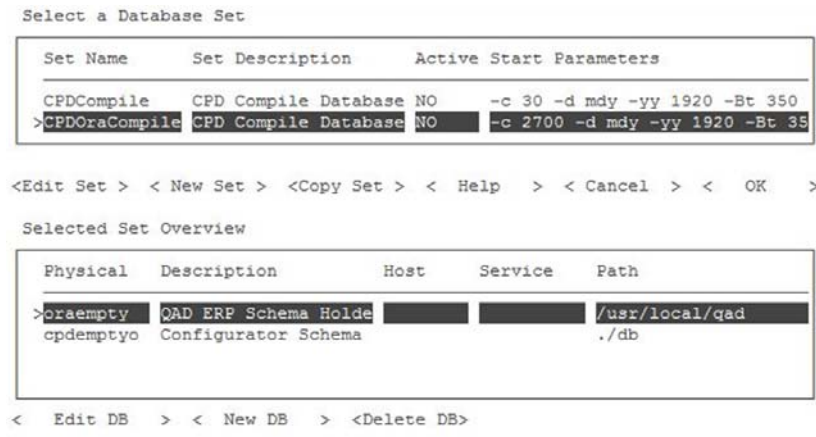
```
QADERPInstallDir/qxtend/xrc:QADERPInstallDir/qra/xrc
```

Compile QAD Configurator AppServer API Files (Oracle Database)

If you have an Oracle database, use the following steps instead of the steps in “Configure the Site-Specific Data Creation Feature” on page 23.

- 1 Run CPDUtil from `CfgAppServerDir/cpd` and choose Configure|Database Set Maintenance.
- 2 Select the CPDOraCompile database set and then the oraempty database; then choose Edit DB.

Fig. 2.22
Configure Database Set



- 3 In the Database Parameters screen, modify the path to `QADERPInstallDir/db`; then choose OK.

Fig. 2.23
Select Database Set



- 4 Select the cpdemtyo database from the CPDOraCompile database set and choose Edit DB.

- 5 In the Database Parameters screen, modify the path to the Configurator schema holder empty database path, *CfgDBSvrInstallDir/cpd/db*; then choose OK.

Fig. 2.24
Select Database Set

Database Parameters

Physical: cpdemptyo
 Logical: oraprocon
 Description: Configurator Schema Holder Database

Path: /dr01/configurator/dbsvr/cpd/db

Connect Parms: -RO

Connection Type: Local [V]
 Host: _____
 Service: _____

Server Parms: -L 8000 -c 2700 -B 1000

< OK > < Cancel > < Help > < New > < Delete >

- 6 Back in the CPDUtil main screen, choose Programs|Compile Procedure.
- 7 In the Compile Options screen, specify CPDOraCompile as the database set and modify the compile path to the following:

CfgAppServerDir/cpd/cop_xrc, QADERPInstallDir/qxtend/xrc, QADERPInstallDir/xrc, QADERPInstallDir/qadui.

Fig. 2.25
Compile Options

Compiler Options

(X)Verbose
()Silent

()Generate Compile List File
(X)Use Existing Compile List

R-code Destination

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

Compile List File: /dr01/qad/mfgpro/eb21sp9 ora/cpd instance/app/cpd/ <Browse>

Compile Propath: /dr01/qad/mfgpro/eb21sp9 ora/cpd instance/app/cpd/cop_xrc,QADERPInstallDir/qxtend/xrc,QADERPInst < Edit >

Language Code: us [V] Database Set: CPDOraCompile [V]

Destination Directory: /dr01/qad/mfgpro/eb21sp9 ora/cpd instance/ <Browse>

<Compile> < Help > < Close >

Modify the QAD .NET UI Parameter File (Progress Database)

If you are installing QAD Configurator on Oracle database, see “Modify the QAD .NET UI Parameter File (Oracle Database)” on page 28.

Modify the existing `base-live-set.pf` file to include the QAD Configurator production database. For the location of the file, refer to the Configurator installation worksheet prepared during “Configurator Installation Preparations” on page 8.

```
-db QADERPInstallDir/db/mfgprod -ld qadddb -H DBSvrHostName -S
mfgprodDBServiceName -trig triggers

-db QADERPInstallDir/db/admprod -ld qadadm -H DBSvrHostName -S
admprodDBServiceName -trig triggers

-db CfgDBSvrInstallDir/cpd/db/cpdprod -ld procon -H DBSvrHostName -S
CfgProdDBServiceName -trig triggers
```

QADERPInstallDir. QAD Enterprise Applications database server installation directory.

DBSvrHostName. Database server host name. Specify this parameter only if you are using the Client-Server database connection type.

mfgprodDBServiceName, *admprodDBServiceName*. Service name of the QAD Enterprise Applications production database and administration database respectively, registered in the `/etc/services` file. Specify these parameters only if you are using the Client-Server database connection type.

CfgProdDBServiceName. Service name of the Configuration production database, registered in the `/etc/services` file. Specify these parameters only if you are using the Client-Server database connection type.

Note Specify `-H DBSvrHostName -S mfgprodDBServiceName` only when your database connection type is Client-Server.

Note If you are using the utf-8 code page, make sure that the following is added to the parameter (.pf) file:

```
-cpinternal utf-8 -cpstream utf-8 -cprcodeout utf-8 -cpcoll ICU-UCA
```

Modify the QAD .NET UI Parameter File (Oracle Database)

Use these steps if you are installing QAD Configurator on Oracle database. For Configurator Progress implementation, see “Modify the QAD .NET UI Parameter File (Progress Database)” on page 27.

Edit the file and add the following line to it:

```
-db CfgDBSvrInstallDir/cpd/db/cpdprodo -ld oraprocon -H DBSvrHostName -S
CfgProdDBServiceName -trig triggers
-db procon -dt ORACLE -U $OraMFGUser@$OracleSID -P $OraMFGPass
```

Modify the QAD .NET UI AppServer Configuration

- 1 Open the `ubroker.properties` file under the `ProgressInstallDir/properties` directory using a text editor and locate the `[UBroker.AS.qaduiASService]` section.
- 2 Add the following directories before the QAD Enterprise Applications path:
 - For 32-bit platforms:

```
QADERPInstallDir/qra/qracore.pl:
QADERPInstallDir/qra/qra.pl:
```



Note For QAD Enterprise Applications On-Premise deployments, you do not need to add `QADERPInstallDir/gra/qracore.pl` to the `PROPATH`. This directory is necessary for On-Demand deployments only.

- For 64-bit platforms:

```
QADERPInstallDir/gra/qracore64.pl:
QADERPInstallDir/gra/qra64.pl:
```

Note For QAD Enterprise Applications On-Premise deployments, you do not need to add `QADERPInstallDir/gra/qracore64.pl` to the `PROPATH`. This directory is necessary for On-Demand deployments only.

3 Append the following QAD Configurator directories to the `PROPATH`.

```
CfgAppServerDir/cpd:
CfgAppServerDir/cpd/LanguageCode:
CfgAppServerDir/cpd/cop_xrc:
QADERPInstallDir/qxtend
```

4 Set the following:

```
srvrShutdownProc=mfaishut.p
srvrStartupProc=mfaistrt.p
```

Modify WebSpeed Configurations

1 Add the WebSpeed service configuration for Configurator.

- Open the `ubroker.properties` file under the `ProgressInstallDir/properties` directory using a text editor.
- Create a WebSpeed service configuration section in the file for Configurator. Use the following sample as reference.

```
[UBroker.WS.CfgWSService]
  srvrLogFile=/qad/web/server/logs/cfa92b/testcfa92buil.server.log
  brokerLogFile=/qad/web/server/logs/cfa92b/testcfa92buil.broker.log
  portNumber=48396
  initialSrvrInstance=1
  maxSrvrInstance=15
  autoTrimTimeout=600
  appserviceNameList=testcfa92buil
  controllingNameServer=NS1
  environment=testcfa92buil
  uuid=561db2f13e5a0142:12dacd1:11739307fc5:-8000
  description=WebSpeed Transaction server for testcfa92buil
  srvrStartupParam =-pf /qad/web/workingdirectories/testcfa92buil.pf -p
  CfgWebSpeedDir/cpd/src/web/objects/web-disp.p -weblogerror -rereadnolock -cpstream
  utf-8
  PROPATH=
  QADERPInstallDir:QADERPInstallDir/xrc:QADERPInstallDir/gra/qracore.pl:QADERPInstal
lDir/gra/qra.pl:QADERPInstallDir/gra/xrc:CfgWebSpeedDir/cpd/:CfgWebSpeedDir/cpd/sr
c:CfgWebSpeedDir/cpd/proxy:CfgAppServerDir/cpd/cop_xrc:.
```

Key parameters and values are highlighted in bold:

`CfgWSService`. Specify a QAD .NET UI WebSpeed service for Configurator.

`uuid`. Generate a uuid using the `genuuid` Progress command.

`CfgWebSpeedDir`. The directory where you installed Configurator WebSpeed files during install scripts execution.

Note For QAD Enterprise Applications On-Demand deployments, make sure that you specify the following directory in the PROPATH. The directory is not needed for QAD Enterprise Applications On-Premise deployments.

- For 32-bit platforms:

```
QADERPInstallDir/qra/qracore.pl
```

- For 64-bit platforms:

```
QADERPInstallDir/qra/qracore64.pl
```

Note Make sure that the following directory is specified at the end of the PROPATH.

```
QADERPInstallDir/qra/qra.pl:QADERPInstallDir/qra/xrc
```

Note If there is no `qra/xrc` in your environment, extract `qra/xrc` from `/qra/qra.zip` in the installation media to the `QADERPInstallDir/qra` directory.

Note If you are using a 64-bit platform, specify the following at the end of the PROPATH:

```
QADERPInstallDir/qra/qra64.pl:QADERPInstallDir/qra/xrc
```

Note The parameter file here is the same database connection as the AppServer parameter file.

Note If you are using eB2.1 SP4, QAD 2007, or QAD 2007.1, recompile the QAD Enterprise Applications code and Desktop code with the following in the front of the PROPATH:

```
QADERPInstallDir/qxtend/xrc
```

2 The Webspeed files support both Apache servers and Tomcat servers.

- For the Apache server: edit the Apache configuration file `httpd.conf` file to create an alias to point to `CfgWebSpeedDir/cpd/htdocs`. Make sure that the web page uses the utf-8 code page, set `AddDefaultCharset` off or to utf-8.

```
Alias /CfgAlias/ "CfgWebSpeedDir/cpd/htdocs/"
<Directory "CfgWebSpeedDir/cpd/htdocs">
    Options Indexes MultiViews
    AllowOverride None
    Order allow, deny
    Allow from all
</Directory>
```

- For the Tomcat server, follow these steps:

a. Create a directory `CfgAlias` under `Tomcat/webapps`.

b. Create a directory `WEB-INF` under `Tomcat/webapps/CfgAlias`.

c. Create a directory `cgi` under `Tomcat/webapps/CfgAlias/WEB-INF`, and copy the file `wspd_cgi.sh` from the `ProgressInstallDir/cgi-bin` directory to the `cgi` directory.

d. Create the `web.xml` file under the `Tomcat/webapps/CfgAlias/WEB-INF` folder; edit the file to include the following information:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
    version="2.5">

<servlet>
    <servlet-name>cgi</servlet-name>
    <servlet-class>org.apache.catalina.servlets.CGIServlet</servlet-class>
    <init-param>
```

```

        <param-name>debug</param-name>
        <param-value>0</param-value>
    </init-param>
    <init-param>
        <param-name>cgiPathPrefix</param-name>
        <param-value>WEB-INF/cgi</param-value>
    </init-param>
    <load-on-startup>5</load-on-startup>
</servlet>

<servlet-mapping>
    <servlet-name>cgi</servlet-name>
    <url-pattern>/cgi-bin/*</url-pattern>
</servlet-mapping>
</web-app>

```

e. Start Tomcat and confirm that the application *CfgAlias* is started in Tomcat manager.

If the following error message is found in the *catalina.out* file, change `<Context>` to `<Context privileged="true">` in the *context.xml* file.

```

java.lang.SecurityException: Servlet of class
org.apache.catalina.servlets.CGIServlet is privileged; it is not
for this web application.

```

f. Copy all contents in the *htdocs* folder to the *Tomcat/webapps/CfgAlias* folder.

- 3 Make sure *wspd_cgi.sh* is installed in *cgi*. If the file is not there, copy it from the *ProgressInstallDir/cgi-bin*.
- 4 Restart the web server, AdminServer, and WebSpeed Workshop. Here is an example of the WebSpeed Workshop URL:

Apache:

```

http://WebSpeedServerHostName/cgi-bin/wspd_cgi.ksh/WService=
WebSpeedBrokerName/Workshop

```

Tomcat:

```

http://WebSpeedServerHostName:8080/cfgAlias/cgi-
bin/wspd_cgi.ksh/WService=WebSpeedBrokerName/Workshop

```

Note 8080 is the Tomcat port on a customer system.

- 5 Compile Configurator WebSpeed files. On the left of the WebSpeed WorkShop UI, click PROPATH.
- 6 Enter *compile.html* in the Find File text box and click Submit Query.
- 7 Click the first matching file that appears.
- 8 On the next page, select *compile.html* and click the Compile icon.
- 9 Click the Run icon; then select all the files and click the Compile icon.

Set Up QAD Configurator .NET UI Plug-In

- 1 Modify *TomcatInstallDir/webapps/qadhome/packages/plugins/manifest.qpkg* to add the following before `</package>`.

```

<package path="" ref="{Repos}/plugins/QAD.Configurator/manifest.qpkg" />

```
- 2 After you restart the QAD .NET client, *QAD.Configurator* is automatically installed.

For QAD Enterprise Edition, run System Synchronize and select Resources; then restart the .NET UI after synchronization is complete.

Register QAD Configurator

Use License Registration (36.16.10.1) in QAD Enterprise Applications to add the license code for QAD Configurator.

Configure WebSpeed Settings

- 1 Launch QAD Configurator and configure the WebSpeed settings in Configurator Control:

WebSpeed URL. Enter the WebSpeed Workshop URL in the following format:

```
http://WebSpeedServerHostName/Alias/cgi-bin/wspd_cgi.ksh/WService=
WebSpeedBrokerName
```

Static Web Context URL. Enter the URL address in the format of

```
http://WebServerHostName:portName/CfgAlias
```

where the scripts, images, and styles folders are published. *portName* is not needed when there is a default port name. *CfgAlias* is the Apache server Alias configuration that points to *CfgWebSpeedDir/cpd/htdocs*

Web Connection Timeout. Specify the amount of time allowed to try to connect to the web server before the system stops trying.

Web Configuration Path. Specify the path where to store the `AppServerConnection.xml` file. Create the directory for storing the configuration file under *CfgWebSpeedDir* and give it read and write permissions.

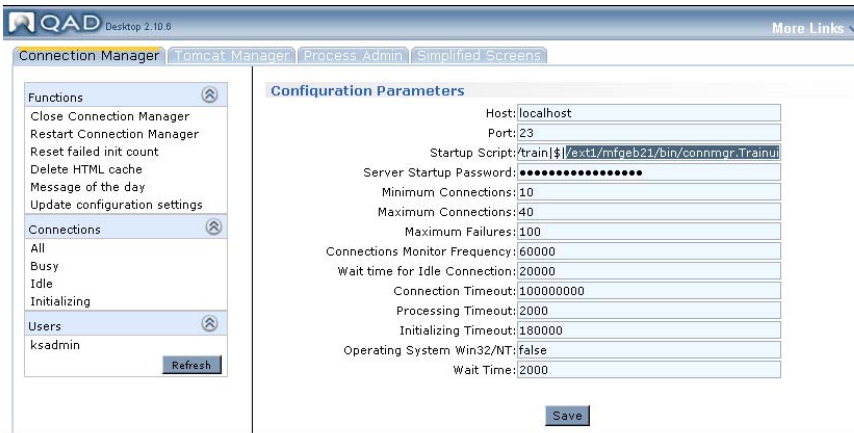
- 2 Restart the WebSpeed server.

Modify Desktop Telnet Scripts

Use the following steps to modify Desktop Telnet scripts for sales order/sales quote line triggers.

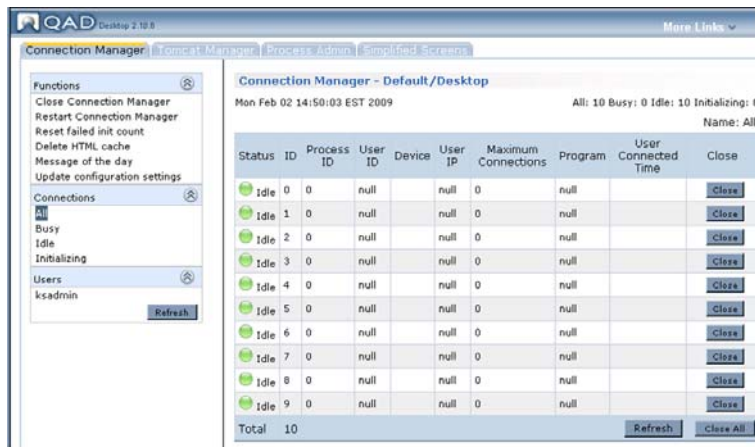
- 1 Log in to Desktop.
- 2 In Connection Manager, click Update Configuration Settings.
- 3 In the Configuration Parameters pane, click in the Startup Script field and then move to the end of the entry to find the name of the Telnet script file.

Fig. 2.26
QAD Desktop Configuration Parameters



- 4 Open the Telnet script file in a text editor and make the following changes:
 - Add `AppServerInstallDir/cpd` and `AppServerInstallDir/cpd/LanguageCode` to the end of the `PROPATH`, where `AppServerInstallDir` is the Configurator AppServer installation directory and `LanguageCode` is the implemented language code; for example, `ge`.
 - Change `mfwb01a.p` to `mfwb01a_c.p` at the end of the file.
- 5 Back in Desktop Connection Manager, click Restart Connection Manager to restart it. When a confirmation message appears, click OK to restart all connections.
- 6 In the Connection pane, click All to display all the connections. Check if all the connections are successfully restarted with status Idle.

Fig. 2.27
All Connections Successfully Started with Idle Status

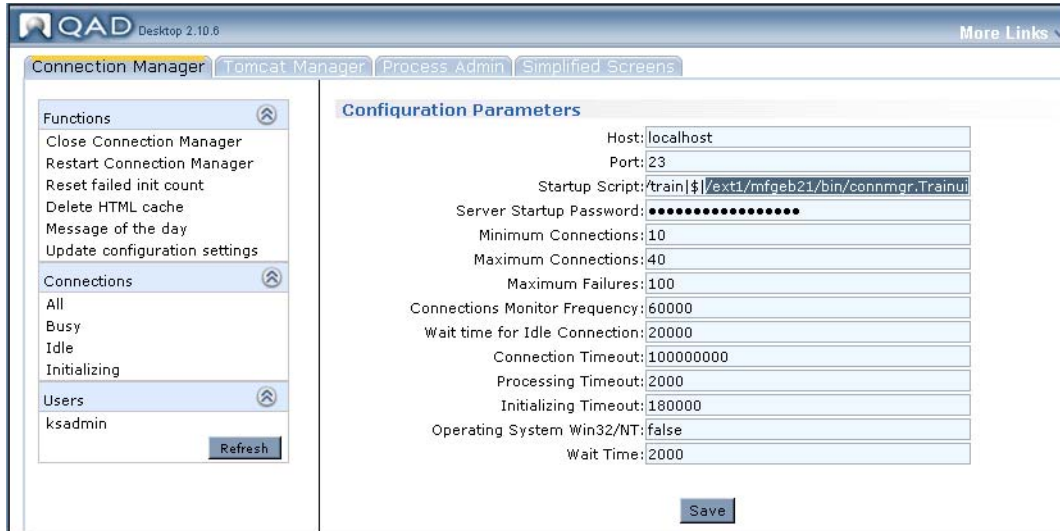


Set QAD Desktop Connection Timeout (Optional)

If a Configurator questionnaire takes a long time to complete, adjust the QAD Desktop connection timeout through QAD Desktop Connection Manager.

To set the QAD Desktop connection timeout, access QAD Desktop and go to Update Configuration Settings in Connection Manager. In the Connection Timeout field, set the value to a number (in milliseconds) large enough to allow for sufficient time to complete a Configurator questionnaire.

Fig. 2.28
QAD Desktop Configuration Parameters



Integrate with Trade Management (Optional)

QAD Configurator supports Trade Management (TrM) versions 2.7.6 and 2.8.2. If you want to integrate the Configurator variant item creation process with the QAD Trade Management product, apply the corresponding Configurator-TrM integration patch and perform some additional steps. There are two patches under the `CfgAppServerDir/cpd/trmitemapi` directory for integration with TrM 2.7.6 and 2.8.2 respectively:

- 2.7.6: It has been certified against the configuration: QAD 2008.1 SE + QXtend 1.6.2 + TrM 2.7.6.
- 2.8.2: It has been certified against the configuration: QAD 2009 SE + QXtend 1.6.2 + TrM 2.8.2.

If there are customizations in your TrM programs, manually merge them into the following program files contained in the TrM patch that ships with Configurator:

gaiginc.i	ppptapm3.i	aichfv1.p	ppptapm3.p	aidrva.p
ppptmta.p	gbcdrval.p	pppttpt.i	gbcdrvam.p	gprdrvaa.p
gbcdrva.p	grpdrva3.p	gbcvap3.p	grpdrva.p	gcdcont7.p
gsinxbtch.i	gifapm017.p	gsinxwork.i	gifapm019.p	gsiprgacc.i
gifapm021.p	gsirptinc.i	pppspt.i	gsisubmt2.i	ppptapm1.i
gsprpdrv2.p	ppptapm1.p	gspsisdef.p	ppptapm2.p	gsptopl.p

The following naming conventions are used throughout the subsequent instructions for the Configurator-Trade Management integration.

PatchDir.CfgAppServerDir/cpd/trmitemapi/TrMVer, the directory where the patch was automatically extracted to during the installation process, where *TrMVer* is the TrM version number: 2.7.6 or 2.8.2.

QADERPInstallDir. The directory where QAD Enterprise Applications is installed.

TrMInstallDir. The directory where QAD Trade Management is installed.

QXtendAdapterInstallDir. The directory where QXtend Adapter is installed. Typically, it is *QADERPInstallDir/qxtend*.

CfgAppServerDir. The directory where Configurator AppServer API files are located.

Use the following steps to integrate Configurator with Trade Management.

Apply the Configurator-TrM Integration Patch (Optional)

1 Compile the patch files.

a Launch MFG/UTIL for QAD Enterprise Applications from *QADERPInstallDir*.

b Choose Procedure|Compile.

c In the Compile screen, enter the following:

R-code Destination. Staggered MFG/PRO Default

Compile List File. *PatchDir/xrc/utcompil.wrk*

Compile PROPATH .

PatchDir/xrc:QXtendAdapterInstallDir/xrc:TrMInstallDir/xrc:TrMInstallDir/us/xrc:QADERPInstallDir/xrc

Destination Directory. *PatchDir*

d Execute the compile process.

2 Modify these startup script files:

- QAD Enterprise Applications client startup script
- QAD .NET UI Connection Manager startup script
- QAD .NET UI Telnet startup script

Add the following to the beginning of the PROPATH in each of these files:

PatchDir:PatchDir/us

3 Import required data.

a Run MFG/UTIL for QAD Enterprise Applications from *QADERPInstallDir*.

b Choose File|Progress Editor.

c In Progress Editor, type the following command and press F1 to execute it:

```
run PatchDir/data/applypatch.p
```

d Connect to your TrM production database.

e Enter *PatchDir/data* in Input Directory.

- f** Select tables scontprm and sprgfldi.
- g** Connect to your TrM production database AGAIN.
- 4** Validate the patch installation.
 - a** Start QAD Enterprise Applications using the modified client startup script.
 - b** Go to TrM Management Control (7.20.19.1).
 - c** Navigate to page 7 of the control program. Then you see the new Run Bulk Upd? field set to Yes by default.

Install QXtend Patch

- 1** Make sure QXtend 1.6.2 Adapter is installed.
- 2** Compile QXtend patch files.
 - a** Run MFG/UTIL for QAD Enterprise Applications from *QADERPInstallDir*.
 - b** Choose Procedure|Compile.
 - c** In the Compile screen, enter the following:
R-code Destination. Flat Destination

Important Choose Flat Destination; otherwise, the Framework files cannot be compiled successfully.

Compile List File. *PatchDir/xrc/framework.wrk*

Compile PROPATH.
PatchDir/xrc:QXtendAdapterInstalldir/xrc:TrMInstallDir/xrc:TrMInstallDir/us/xrc:QADERPInstallDir/xrc

Destination Directory. *PatchDir*
 - d** Execute the compile process.

Recompile Configurator AppServer

- 1** Make sure Configurator AppServer is installed and configured correctly.
- 2** Turn on Configurator TrM Integration. Edit file *CfgAppServerDir/cop_xrc/pcparm.i* and change

```
&GLOBAL-DEFINE trm-enabled no
```

to:

```
&GLOBAL-DEFINE trm-enabled yes
```
- 3** Compile Configurator files.
 - a** Run *cpdutil* from *CfgAppServerDir/cpd/*.
 - b** Choose Procedure|Compile.

- c In the Compile screen, enter the following:

R-code Destination. Staggered MFG/PRO Default

Compile List File. `$CfgAppServerDir/cop_xrc/utcompil.wrk`

Compile Propath .

`CfgAppServerDir/cop_xrc:PatchDir/xrc:TrMInstallDir/xrc:TrMInstallDir/us/xrc:QXtendAdapterInstallDir/xrc:QADERPInstallDir/xrc`

Destination Directory. `CfgAppServerDir`

- d Execute the compile process.
- 4 Modify Configurator AppServer UBroker settings. Add the following to the beginning of the PROPATH:

`PatchDir:PatchDir/us:TrMInstallDir:TrMInstallDir/us`

- 5 Restart Configurator AppServer.

Integrate With QAD CSS (Optional)

QAD CSS can be integrated with QAD Configurator to create B2B orders for configurable products. The integration setup is done in QAD CSS. For more information, see “Set Up Integration of QAD CSS and QAD Configurator (Optional)” in *QAD CSS Installation Guide*.

When you implement the integration of QAD Configurator and QAD CSS, you can use distributed deployment. Distributed deployment is relatively easy to implement and maintain. For more information on distributed deployment, refer to “Distributed Deployment” in *QAD CSS Installation Guide*.

Debug Configurator Installation (Optional)

- 1 Open the `ubroker.properties` file under the `ProgressInstallDir/properties` directory using a text editor and locate the `[UBroker.AS.qaduiASService]` section.
- 2 Append the following:

```
svrStartupParam=-param configurator.debug=yes
```



Upgrading QAD Configurator Using MFG/UTIL

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Before Upgrading QAD Configurator 40

Upgrading Steps 40

Overview

General upgrading steps are as follows:

- 1 Installing QAD Configurator
- 2 Copying Data From the Previous Version of QAD Configurator
- 3 Updating Database Schema
- 4 Converting Production Database to UTF-8
- 5 Converting Production Database to the Current Version and Loading Production Data
- 6 Rebuilding Database Index
- 7 Converting Production Database to Enterprise Edition
- 8 Modifying manifest.qpkg File

Before Upgrading QAD Configurator

If your existing QAD Configurator system uses an earlier Progress version, upgrade it to OpenEdge10.1A02 or up first. See Progress documentation for information on how to upgrade Progress.

If you are using previous versions of the QAD Enterprise Applications, first upgrade to a supported version. See the installation documentation for that version for information.

Back up your QAD Configurator production environment before upgrading.

Upgrading Steps

Installing QAD Configurator

Install a new instance of the current version of QAD Configurator. See “Installing QAD Configurator Using MFG/UTIL” on page 7 for information on how to install the current version of QAD Configurator. If you are going to manage Configurator patch installation with YAB, see “Installing or Upgrading QAD Configurator Using YAB” on page 45.

Copying Data From the Previous Version of QAD Configurator

- 1 Copy the `pccop.i` file and the `pcfunc.i` file from the previous QAD Configurator environment to the new QAD Configurator environment. The two files contain customized functions. If you skip this step, it is possible that later the Configurator Analyzer or the Batch Compiler reports errors.
- 2 Remove the production databases from the new QAD Configurator database installation directory.
- 3 Copy the legacy production databases of the previous version of QAD Configurator to the new QAD Configurator database installation directory.



Updating Database Schema

Use the following steps to load the new data definitions to update the QAD Configurator database schema in the new Configurator instance.

- 1 Launch MFG/UTIL for Configurator. Execute `cpdutil` from `CfgDBSvrInstallDir/cpd/`.
Note MFG/UTIL assumes that the QAD Enterprise Applications database uses the utf-8 code page. If your QAD Enterprise Applications database uses a different code page, open `cpdutil` in a text editor and modify the startup parameters `-cpinternal`, `-cpstream`, `-cpcoll` to use the same code page that QAD EA database uses.
 When there is a warning message saying that the code page you use is not supported for TTY clients, you can ignore it.
- 2 The MFG/UTIL screen appears. Choose Upgrade Configurator|Load Database Schema (.df) File. The Connect Database screen appears.
- 3 Connect to the Configurator production database.
- 4 Load the data definition file to update the database schema. Load the appropriate schema definition files depending on your upgrade path.

If you are upgrading from this version	Load ...
4.3	43-59.df
4.3.1	431-59.df
4.4	44-59.df
4.4.1	441-59.df
4.4.2	442-59.df
5.0	50-59.df
5.0.1	501-59.df
5.0.2	502-59.df
5.1	51-59.df
5.2	52-59.df
5.2.1	521-59.df
5.2.2	522-59.df
5.3	53-59.df
5.3.1	531-59.df
5.4	54-59.df
5.4.1	541-59.df
5.5	55-59.df
5.6	56-59.df
5.7	57-59.df
5.8	58-59.df
5.8.1	581-59.df

- 5 When loading is complete, you return to the MFG/UTIL main screen. The QAD Configurator database schema is updated.

Converting Production Database to UTF-8

Perform this step only if your QAD Enterprise Applications database also uses the UTF-8 code page.

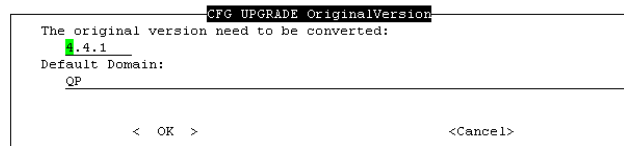
- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Convert Configurator to UTF-8.
- 2 Choose Database|Connect. The Connect Database screen appears. Connect to the Configurator production database.
- 3 A message appears reminding you to back up the database. Since you already have a backup copy of the legacy Configurator production database, enter Yes to continue.
- 4 When the Load Data Definition File screen is displayed, load *ProgressInstallDir/prolang/utf/ICU-UCA.df*.
Note Safely ignore any error and warning messages and choose OK to continue.
- 5 A database conversion progress screen is displayed. Choose Close.
- 6 A Rebuild Index Progress screen appears. Choose Close. The database conversion is complete.

Converting Production Database to the Current Version and Loading Production Data

Perform this step only if you are upgrading from Configurator version 4.3, 4.3.1, 4.4, 4.4.1, or 4.4.2.

- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Convert Configurator.
- 2 Enter 4.3.1 for both Configurator 4.3 and 4.3.1; enter 4.4 for Configurator 4.4, 4.4.1 for Configurator 4.4.1, and 4.4.2 for Configurator 4.4.2; then choose OK.

Fig. 3.1
Convert Configurator Database



- 3 The Connect Database screen appears. Connect to the Configurator production database; then press OK. The system converts the Configurator production database to the current version and creates the *CfgDBSvrInstallDir/cpd/convdata* directory, where production data is stored.

Note Make sure that the *convdata* directory does not exist before executing this step; otherwise, errors occur.

- 4 In Configurator MFG/UTIL, choose Database|Progress Data Dictionary.
- 5 The Connect Database screen is displayed. Connect to the Configurator production database; then press OK.
- 6 Choose Admin|Load Data and Definitions|Table Contents.

- 7 In the Select Tables screen, choose Select Some and enter * in the Table Name field; then choose OK to select all the tables in the database.
- 8 Back in the Select Tables screen, choose OK.
- 9 In the Load Data Contents for All Tables screen, enter `CfgDBSvrInstallDir/cpd/convdata`; then choose OK.
- 10 The data load progress begins.

Rebuilding Database Index

- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Rebuild Index.
- 2 The Connection Database screen appears. Connect to the Configurator production database and choose OK.
- 3 The rebuild index progress begins. When rebuilding is complete, choose Close.

Converting Administration Database

Perform this step only if you are upgrading from Configurator version 5.0, 5.0.1, 5.0.2, 5.1, 5.2, 5.2.1, or 5.2.2

- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Convert QAD Admin Database.
- 2 The Connect Database screen appears. Connect to the QAD Admin database and choose OK. Leave mfgprod as the logical name.
- 3 The conversion progress screen appears. When conversion is complete, choose Close.
- 4 The Input Directory screen appears. Browse to `CfgDBSvrInstallDir/cpd/data/adm` and choose OK.
- 5 The Table Selection for Load screen appears. Make sure that all tables are selected and choose OK.
- 6 The data loading screen appears. When loading is complete, choose Close.

Converting Production Database to Enterprise Edition

Perform this step only if you are upgrading from Standard Edition or previous versions of QAD Enterprise Applications to Enterprise Edition.

- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Convert to eB3.
- 2 The Connect Database screen is displayed. Connect to the Configurator production database and QAD Enterprise Applications database; then press OK.
- 3 The conversion progress screen is displayed. When conversion is complete, choose Close.

Modifying manifest.qpkg File

Modify the following file:

TomcatInstallDir/webapps/qadhome/packages/plugins/manifest.qpkg

Locate the following line in the file and increment the last digit of the version number by one; for example, if *VersionNumber* is 2.7.216.3, change it to 2.7.216.4.

```
<package confirm="true" id="qad.plugins" manifest-file="manifest.qpkg" name="qad.plugins" path-from-repository="plugins" version="VersionNumber">
```

Converting Comments to Translation

For Configurator 5.4 or 5.4.1 users who used option comments for multi-language questionnaire purposes, there is a tool to convert the multi-language comments into translation records.

Use this utility only if you want to convert your multi-language comments into translation records.

- 1 In Configurator MFG/UTIL, choose Upgrade Configurator|Convert Comments to Translation.
- 2 In the Connect Database screen, connect to the Configurator production database and then press OK.
- 3 You can see the conversion progress on the Conversion Progress screen. Wait until the conversion is complete and then close the screen.

Installing or Upgrading QAD Configurator Using YAB

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Installing or Upgrading QAD Configurator Using YAB 46

(Optional) Modifying the YAB Configuration File 46

Overview

QAD Configurator is an add-on product that can be installed into QAD Enterprise Edition. YAB is a deployment and management toolset that covers all products installed into an Enterprise Edition environment.

Note QAD Configurator versions prior to 5.7 are not supported by YAB.

For instructions of installing and upgrading QAD Configurator on QAD EA with the MFG/UTIL installer, see “Installing QAD Configurator Using MFG/UTIL” on page 7 and “Upgrading QAD Configurator Using MFG/UTIL” on page 39.

Starting from QAD Configurator 5.11, yab-ee-app 1.9.2 above is required.

Installing or Upgrading QAD Configurator Using YAB

Follow these steps to install or upgrade Configurator using YAB:

- 1 Download the latest YAB version from QAD Release Fulfillment and move it to the directory where QAD Enterprise Edition is installed.
- 2 Install the latest YAB version by running the following command:

```
yab install <yab patch>
```

- 3 Download the Configurator package from QAD Release Fulfillment. Place the zip file in a convenient location; for example, the `/qad/install` directory on the server where Configurator will be installed.
- 4 Navigate to the directory where Enterprise Edition is installed.
- 5 (Optional) Modify your YAB configuration with specific settings for your installation. See “(Optional) Modifying the YAB Configuration File” on page 46.

- 6 Enter:

```
yab install <zip file>
```

- 7 The system performs additional Configurator installation steps.

Note If the installation fails, check the `./build/logs/yab.log` file.

- 8 Enter the license code for your product.

The installation creates the following directory in the local catalog:

```
./build/catalog/packages/configurator
```

This directory contains the Configurator source code, as well as dmp standard files. The Configurator compiled code is stored under `./dist/configurator`.

(Optional) Modifying the YAB Configuration File

This section contains the YAB information specific to the Configurator product.

The only configuration file that you should modify is the `configuration.properties` file, which is used to record changes to the standard configuration defaulted by the system.



To apply your configuration, follow these steps:

- 1 Define your configuration settings in the `configuration.properties` file located in the `build/config/` folder.

This file only contains settings that differ from the base product configuration (`build/config/system`) and can initially be empty. To override a setting, add the setting to this file and adjust the value. If the setting is already defined in the file, you can simply adjust the value.

Table 4.1 lists the settings that you can change.

Table 4.1
Configuration Properties

Key	Default	Usage
<code>configurator.create-site-item-data</code>	False	This setting determines whether to create item-site data with item master records when the system generates variants from the configurable item. If so, you can also specify which sites to use to create item-site data. By default, the feature is disabled.
<code>configurator.trm-integration-enabled</code>	False	This setting determines whether to integrate with Trade Management. By default, the feature is disabled.
<code>customizations.configurator.dir</code>	<code>\${customizations.dir}/configurator</code>	This setting determines the directory in which Configurator customizations are organized.
<code>patches.configurator.dir</code>	<code>\${patches.dir}/configurator</code>	This setting determines the directory in which Configurator patches are organized.
<code>dist.configurator.dir</code>	<code>\${dist.dir}/configurator</code>	This setting determines the directory in which various Configurator runtime artifacts are organized.
<code>ws.configurator.name</code>	<code>ws-cfg</code>	This setting determines the WebSpeed server name.
<code>ws.configurator.workdir</code>	<code>\${appdir.work}/configurator</code>	This setting determines the WebSpeed working directory.
<code>ws.configurator.portnumber</code>	inherited from <code>ws._base.portnumber</code>	This setting determines the WebSpeed server port number.
<code>ws.configurator.fileUploadDirectory</code>	<code>\${appdir.work}/configurator/uploads</code>	This setting determines the directory in which WebSpeed codes are organized.

- 2 Execute the update command to apply the configuration change:

```
> yab update
```

You can use the `update` command to apply any change to the system.

The configuration changes, which are limited to updating application configuration files and database settings, can be applied with the quicker `reconfigure` command.

```
> yab reconfigure
```

Note The `reconfigure` command does not restart the environment. It might be necessary to restart the environment or specific servers for the application to recognize the change.

Upgrading from Non-YAB Version to YAB Version

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Upgrade Steps 50

Overview

This chapter covers the instructions for upgrading QAD Configurator from a non-YAB version (prior to 5.7) to a YAB version. Both MFG/UTIL and YAB tools are used in this upgrade process.

Upgrade Steps

Follow these steps to upgrade QAD Configurator from a non-YAB version to a YAB version:

- 1 Run `./install` from QAD Configurator media and only copy the first component, which includes QAD Configurator database, system data, and toolset files.
- 2 Copy the old QAD Configurator database of the non-YAB version to the new QAD Configurator database location to replace the new database.
- 3 Do the schema updating and conversion if necessary. (The QADDB database and the QADADM database are not required to be updated or converted.) See “Upgrading QAD Configurator Using MFG/UTIL” on page 39.
- 4 Install QAD Configurator using YAB. See “Installing or Upgrading QAD Configurator Using YAB” on page 46.

- 5 Back up the QAD Configurator database that is generated from step 2 to a specified location by running the following command:

```
probkup <non-yab install DB> <backup DB>
```

- 6 Copy the backup database to a location that is accessible from the YAB environment.
- 7 Run the following command to stop the YAB environment:

```
yab stop
```

- 8 Delete the QAD Configurator database that is generated from step 4 by running the following commands:

```
rm yabInstallDBLocation/<configurator db name>*
rm yabInstallDBLocation/extent/<configurator db name>*
```

- 9 Generate a new YAB-version QAD Configurator database by running the following commands:

```
prorest <backup DB> yabInstallDBLocation/<configurator db name>
```

- 10 Run the following command.

```
yab update -clean
```



Appendix A

Troubleshooting

If you encounter errors during installation, you can go to QAD KnowledgeBase for solutions. This section lists a number of KnowledgeBase entries for your reference.

Issue	AppServer Start Failure with Invalid Version Error
ID	qad66260
Fact	Running with a PROGRESS version other than PROGRESS 10.1B.
Symptom	The AppServer instance failed in starting. An error of “Invalid version” was found in the server log. An example of the error information is “Invalid version, 1007 (expected 17391) in object file com/qad/qra/si/RPCRequestService.r. (2888)”
Cause	A file named qra.pl is included in the Configurator deliverable. It is a library file that is compiled against PROGRESS 10.1B. If this library file is executed against other PROGRESS versions, errors occur.
Fix	The workaround is to remove qra.pl from the Configurator PROPATH and include code compiled from the xrc directory in the PROPATH.

Issue	Error: 500 Internal Server Error
ID	qad66259
Symptom	Error “500 Internal Server Error” appears in the Questionnaire screen.
Fix	In the PROGRESS Webspeed setting, on which the Configurator is running, a parameter setting of “-weblogerror” is required. Add this setting to the corresponding section of the ubroker.properties file, which is typically located under the \$DLC/properties directory.

Issue	Net UI Application cannot be launched.
Symptom	Error message “The caller’s temp-table parameter temp_err_msg does not match the target temp-table temp_err_msg.” in AppServer log.
Cause	QAD Enterprise Applications code and Desktop code have not been compiled against QXtend
Fix	Compile QAD Enterprise Applications code and Desktop code with <i>QADERPInstallDir/qxtend/xrc</i> and <i>QADERPInstallDir/qra/xrc</i> in the front of the compile PROPATH.

Issue	Cannot enter Configurator Menu Item
Symptom	When the user tries to access the Configurator menu, error message 6690 “The system is unable to authenticate you” appears. Error message “restoreSessionContext is not found” in AppServer log.
Fix	Add the following two parameters to the AppServer ubroker session: <pre> srvrStartupProc=mfaistrt.p srvrShutdownProc=mfaishut.p </pre> Make sure that <i>QADERPInstallDir/qxtend</i> is added to the AppServer PROPATH before <i>QADERPInstallDir</i> .

Issue	Desktop connection cannot be initialized.
--------------	---

Symptom	<p>After Configurator is installed, Desktop Connection Manager cannot start up any idle session (Green icon).</p> <p>Run script <code>connmgr.Demonstration</code> on server console, warning message appears:</p> <pre>WARNING: Using -cpinternal UTF-8 is not supported for TTY clients. (11994) Press space bar to continue.</pre>
Fix	<p>Wrap scripts of QAD Desktop that do not support <code>cpinternal</code> codepage UTF-8. Remove <code>-cpinternal UTF-8</code> from the bottom line of QAD Desktop Wrap scripts <code>connmgr.Demonstration</code> and <code>telnet.Demonstration</code>.</p>

Issue	An error occurs when compiling <code>pccsssi.p</code> .
Symptom	<p>When compiling <code>pccsssi.p</code>, the following error message appears on line 49:</p> <pre>CATCH e AS Progress.Lang.Error: assign session:date-format = cDateFormat</pre>
Fix	<p>This <code>pccsssi.p</code> file is used for integrating QAD Configurator with QAD CSS.</p> <ul style="list-style-type: none"> Do not compile it if you do not integrate QAD Configurator with QAD CSS. Make sure that you installed OpenEdge 10.1C01 or a later version before compiling <code>pccsssi.p</code>.

Issue	JavaScript error occurs when launching Configuration Questionnaire.
Symptom	<p>When launching Configuration Questionnaire, the following JavaScript error occurs:</p> <pre>UncoverMask is undefined.</pre>
Fix	Check whether the <code>scripts</code> directory is reachable.

Issue	<code>Appserverconnection.xml</code> not found in CPD WS broker log
Symptom	When launching Configuration Questionnaire, CPD WS broker log reports that <code>Appserverconnection.xml</code> is not found.
Fix	Make sure that WebSpeed server has write permissions to the property path specified in Configurator Control. Then, restart the WebSpeed server.

Issue	An error occurs when compiling the <code>pcsupplieritem.p</code> file.
Symptom	<p>The following error message appears on Line 293:</p> <pre>ppvpdspt.i was not found.</pre>
Fix	The <code>pcsupplieritem.p</code> file is for creating the variant supplier and requires QXtend Adapter 1.8.3 or later. Ignore it if you do not need this function.

Issue	Disabling QAD Configurator as a product
--------------	---

Symptom	You want to disable QAD Configurator after you have had it installed.
Fix	<p>(This solution is applicable to Configurator 5.4 and later versions.)</p> <p>Follow these steps to disable QAD Configurator:</p> <ul style="list-style-type: none"> • Go to the installation directory of your client-side .NET UI on local PC. • Go to the folder <code>plugin\QAD.Configurator</code>, and open the <code>plugin-config.xml</code> file for editing. • Change the Enabled flag from <code>true</code> to <code>false</code>, as shown in the following: <pre><?xml version="1.0" encoding="utf-8" ?> <DeploymentDescriptor xmlns= "http://www.qad.com/DeploymentDescriptor.xsd" Provider="QAD" Key="qad.plugin.configurator" Version="1.0.0" Enabled="false"> <Plugin> <Assembly>QAD.Plugin.Configurator.dll</Assemb ly> <Type>QAD.Configurator.ConfiguratorPluginExte nsion</Type> </Plugin> </DeploymentDescriptor></pre> <ul style="list-style-type: none"> • Run .NET UI client again.

Configurator APIs

The Configurator APIs allow users to programmatically interact with the QAD Configurator.

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Create a Variant Item

Use `createVariant` API to create a variant item from a provided configuration. Creation of a variant item can result in creation of multiple variant items. For multi-level generic items, there are multiple `ttVariantItem` records. This API is for creating the following data in QAD Enterprise Applications: variant item, bill of materials (BOM), routings, and costs.

The resulting `ttVariantItem` records hold the data for the created resulting variant items for this configuration. The `ttVariantItem` records contain the name of the resulting variant item. For multi-level generic items, the records also contain the variant item's parent variant item.

API Name and Program

`createVariant` in `pcsvcrsi.p`

Input/Output Signature

```
procedure createVariant:
  define input parameter dataset for dsConfigurationInput.
  define input-output parameter dataset for dsConfiguration.
  define output parameter dataset for dsVariantItem.
  ...
end procedure.
```

Example

To create a variant item for a configurable item `SPEC` with features `siItemDescr` and `siItemUOM` for the customer `4000`:

```
DEFINE VARIABLE vhProgram      AS HANDLE NO-UNDO.

RUN us/pc/pcsvcrsi.p  PERSISTENT SET vhProgram.

create ttGenericItem.
assign
  ttGenericItem.domain = "st92bmfq"
  ttGenericItem.groupID = "CRI01"
  ttGenericItem.genericItemID = "SPEC".
release ttGenericItem.

create ttConfiguration.
assign
  ttConfiguration.customer = "4000".
release ttConfiguration.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "siItemDescr"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "Test SPEC"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "siItemUOM"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "EA"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.
```



```
run createVariant in vhProgram(input dataset dsConfigurationInput,
                               input-output dataset dsConfiguration,
                               output dataset dsVariantItem).
```

Find or Create Variant Item

The *findOrCreateVariantItem* API is used to locate an existing configuration that matches the specified configuration. If there is no such match, a new variant item is created.

API Name and Program

findOrCreateVariantItem in *pcsvfcrsi.p*

Input/Output Signature

```
procedure findOrCreateVariantItem:
  define input parameter dataset for dsConfigurationInput.
  define input-output parameter dataset for dsConfiguration.
  define output parameter dataset for dsVariantItem.
  ...
end procedure.
```

Example

To search an existing configuration for the configurable item *32-101* with features *housing-length*, *housing-height*, *housing-width*, *paint-housing*, and *backup*:

```
DEFINE VARIABLE vhProgram      AS HANDLE NO-UNDO.

RUN us/pc/pcsvfcrsi.p  PERSISTENT SET vhProgram.

create ttGenericItem.
assign
  ttGenericItem.domain = "st92bmfq"
  ttGenericItem.groupID = "March"
  ttGenericItem.genericItemID = "32-101"
  ttGenericItem.customerID = "4000".
release ttGenericItem.

create ttConfiguration.
assign
  ttConfiguration.customer = "4000".
release ttConfiguration.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "housing-length"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "40"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "housing-height"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "54"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

create ttConfigurationDetail.
assign
```

```

ttConfigurationDetail.feaID = "housing-width"
ttConfigurationDetail.feaExtIdx = 1
ttConfigurationDetail.feaValue = "71"
ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "paint-housing"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "yes"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

create ttConfigurationDetail.
assign
  ttConfigurationDetail.feaID = "backup"
  ttConfigurationDetail.feaExtIdx = 1
  ttConfigurationDetail.feaValue = "yes"
  ttConfigurationDetail.feaIsKey = true.
release ttConfigurationDetail.

run findOrCreateVariantItem in vhProgram
  (input dataset dsConfigurationInput, input-output dataset dsConfiguration, output
  dataset dsVariantItem).

```

Retrieve Configurations

The *getConfigurationsForGenericItemByCriteria* API is used to retrieve configurations for a specified generic item. This API allows for assigning criteria for filtering the configurations that are returned.

The resulting *ttConfiguration* records contain all the configurations that match the provided criteria. These configurations include the variant items, if any, associated with these configurations as well as the list price for the configurations. In addition, the *ttConfigurationDetail* records have the feature option selections specified for these resulting configurations.

API Name and Program

getConfigurationsForGenericItemByCriteria in *pccfgtsi.p*

Input/Output Signature

```

procedure getConfigurationsForGenericItemByCriteria:
  define input parameter dataset for dsConfigurationInput.
  define input-output parameter dataset for dsConfiguration.
  ...
end procedure.

```

Example

To search an existing configuration with features *siItemDescr* and *siItemUOM*:

```

DEFINE VARIABLE vhProgram      AS HANDLE NO-UNDO.

RUN us/pc/pccfgtsi.p  PERSISTENT SET vhProgram.

create ttGenericItem.
assign
  ttGenericItem.domain = "st92bmfq"
  ttGenericItem.groupID = "CRI01"

```



```

    ttGenericItem.genericItemID = "SPEC".
  release ttGenericItem.

  create ttCriteria.
  assign
    ttCriteria.criteriaType = "fea"
    ttCriteria.feaID = "siItemDescr"
    ttCriteria.feaExtIdx = 1
    ttCriteria.feaDataType = ""
    ttCriteria.feaValue = "Test SPEC"
    ttCriteria.operator = "eq".
  release ttCriteria.

  create ttCriteria.
  assign
    ttCriteria.criteriaType = "fea"
    ttCriteria.feaID = "siItemUOM"
    ttCriteria.feaExtIdx = 1
    ttCriteria.feaDataType = ""
    ttCriteria.feaValue = "EA"
    ttCriteria.operator = "eq".
  release ttCriteria.

  run getConfigurationsForGenericItemByCriteria in vhProgram
    (input-output dataset dsConfigurationInput, output dataset dsConfiguration).

```

Retrieve Configuration Groups

The *getGroups* API is used to retrieve Configurator groups for a specified configurable item. The client uses the API to determine whether an item has one or more groups. It provides a list of groups from which the desired group can be selected for further processing.

The resulting *ttItemGroup* records hold the data for the Configurator groups, if any.

API Name and Program

getGroups in *pcgpiqsi.p*

Input/Output Signature

```

procedure getGroups:
  define input-output parameter dataset for dsItemGroup.
  ...
end procedure.

```

Example

To retrieve Configurator groups for the item *SPEC*:

```

DEFINE VARIABLE vhProgram AS HANDLE NO-UNDO.

RUN us/pc/pcgpiqsi.p PERSISTENT SET vhProgram.

create ttItemGroup.
assign
  ttItemGroup.itemNumber = "SPEC".
release ttItemGroup.

run getGroups in vhProgram
  (input-output dataset dsItemGroup).

```



Product Information Resources

QAD offers a number of online resources to help you get more information about using QAD products.

[QAD Forums \(community.qad.com\)](https://community.qad.com)

Ask questions and share information with other members of the user community, including QAD experts.

[QAD Knowledgebase \(knowledgebase.qad.com\)*](https://knowledgebase.qad.com)

Search for answers, tips, or solutions related to any QAD product or topic.

[QAD Document Library \(documentlibrary.qad.com\)](https://documentlibrary.qad.com)

Get browser-based access to user guides, release notes, training guides, and so on; use powerful search features to find the document you want, then read online, or download and print PDF.

[QAD Learning Center \(learning.qad.com\)*](https://learning.qad.com)

Visit QAD's one-stop destination for all courses and training materials.

*Log-in required

