

Oracle® Configurator

Release Notes

Release 11*i*

August 2002

Part No. A73283-12

The Release Notes describe the fixes, limitations, and other information specific to this release. Throughout this document, Oracle Configurator may be referred to as OC.

Part No. A73283-12

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Send Us Your Comments

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Oracle Corporation welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

- Did you find any errors?
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Preface

The *Oracle Configurator Release Notes* describe:

- requirements, warnings and helpful hints specific to Release 11*i*
- how and where you can find support for resolving issues
- changes that have been made in Configurator Developer and Oracle Configurator Developer in each Release 11*i* patchset
- what is new in Release 11*i* and the patchset where the new feature was implemented
- the issues in prior releases that have been resolved and the particular build where the resolution was resolved
- issues that should be considered when either migrating or upgrading to Oracle Configurator Release 11*i*
- known limitations with the installation of Oracle Configurator, Oracle Configurator Developer, runtime Oracle Configurator, using CIO and Functional Companions, and the Oracle Configurator documentation set.

For details regarding the structure of this document see [Structure](#) on page xii.

Intended Audience

This document is intended for system administrators, database administrators, implementers, and end users. Anyone responsible for supporting use of Oracle Configurator should read this document. That includes supporting the development environment (Oracle Configurator Developer) as well as the runtime environment that is created for deployment.

Documentation Accessibility

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Structure

This manual contains the following chapters:

- [Supported Hosting Applications](#) on page 1-1
- [Before You Start](#) on page 2-1
- [What's Changed in Oracle Configurator](#) on page 3-1
- [What's New in Oracle Configurator](#) on page 4-1
- [Software Updates in Oracle Configurator](#) on page 5-1
- [Considerations for Upgrade and Migration](#) on page 6-1
- [Known Limitations With Installation](#) on page 7-1
- [Known Limitations in Configurator Developer](#) on page 8-1
- [Known Limitations with the Runtime Oracle Configurator](#) on page 9-1

- [Known Limitations Using Functional Companions and the CIO](#) on page 10-1
- [Known Limitations with Oracle Configurator Documentation](#) on page 11-1

Related Documents

The following documents are also included in the Oracle Configurator documentation set on the Oracle Configurator Developer compact disc or the Oracle Applications Documentation Library compact disc:

- *Oracle Configurator Installation Guide*
- *Oracle Configurator Developer User's Guide*
- *Oracle Configurator Custom Web Deployment Guide*
- *Oracle Configuration Interface Object (CIO) Developer's Guide*
- *Oracle Configurator Implementation Guide*
- *Oracle Configurator Performance Guide*

For more information, see the ARU Readme for Oracle Configurator patches, the documentation for Oracle Applications (Release 11*i*) Oracle RDBMS (Release 8*i* or 9*i*), the *Oracle Applications Library*, and the product-specific Release Notes for releases supported to work with Oracle Configurator.

Conventions

The following conventions are also used in this manual:

Convention	Meaning
. . .	Vertical ellipsis points in an example mean that information not directly related to the example has been omitted.
...	Horizontal ellipsis points in statements or commands mean that parts of the statement or command not directly related to the example have been omitted
boldface text	Boldface type in text indicates a new term, a term defined in the glossary, specific keys, and labels of user interface objects. Boldface type also indicates a menu, command, or option, especially within procedures
<i>italics</i>	Italic type in text, tables, or code examples indicates user-supplied text. Replace these placeholders with a specific value or string.

Convention	Meaning
[]	Brackets enclose optional clauses from which you can choose one or none.
>	The left bracket alone represents the MS DOS prompt.
\$	The dollar sign represents the DIGITAL Command Language prompt in Windows and the Bourne shell prompt in Digital UNIX.
%	The per cent sign alone represents the UNIX prompt.
name ()	In text other than code examples, the names of programming language methods and functions are shown with trailing parentheses. The parentheses are always shown as empty. For the actual argument or parameter list, see the reference documentation. This convention is <i>not</i> used in code examples.

Product Support

The mission of the Oracle Support Services organization is to help you resolve any issues or questions that you have regarding Oracle Configurator Developer and Oracle Configurator.

To report issues that are not mission-critical, submit a Technical Assistance Request (TAR) using Metalink, Oracle's customer support Web site, at:

<http://metalink.oracle.com/>

Log into your Metalink account and navigate to the Configurator TAR template:

1. Choose the **TARs** link in the left menu.
2. Click on **Create a TAR**.
3. Fill in or choose a profile.
4. In the same form:
 - a. Choose **Product**: Oracle Configurator or Oracle Configurator Developer
 - b. Choose **Type of Problem**: Oracle Configurator Generic Issue template
5. Provide the information requested in the *t*TAR template.

You can also find product-specific documentation and other useful information using Metalink.

For a complete listing of available Oracle Support Services and phone numbers, see:

<http://www.oracle.com/support>

Supported Hosting Applications

The following applications currently support Oracle Configurator:

- Bills of Material
- Oracle Sales Contracts
- Oracle Quoting
- Oracle iStore
- Oracle Order Management
- Oracle Sales On Line
- Oracle TeleSales
- Custom host applications

Before You Start

Before you begin creating a configuration model, consider the following requirements, warnings, and helpful hints. For additional help with some of these issues see the Oracle Configurator documentation, especially the *Oracle Configurator Installation Guide* and the *Oracle Configurator Implementation Guide*.

2.1 Requirements

- Meet all platform requirements for Oracle Configurator Developer as presented in the *Oracle Configurator Installation Guide* on the Oracle Configurator Developer Compact Disc.
- For best performance, set up your Oracle Configurator deployment with different server machines for the database and the application, Web server (middle tier). Size the middle tier (where the Oracle Configurator engine, Oracle Configurator Servlet, and UI Server are installed) according to the complexity and size of your configuration model, as well as the end-user demands on your runtime Oracle Configurator. For additional performance information see "[Known Limitations in Configurator Developer](#)" on page 8-1.
- Any browser running a DHTML runtime Oracle Configurator must be set to display and use JavaScript and Cascading Style sheets, and must enable cookies. These requirements are met by Netscape 4.06 or later and Internet Explorer 4.0 with Service Pack 2 or later.

2.2 Warnings

- Oracle Configurator Developer is a database-intensive application and requires a fast connection to your Oracle Configurator schema. We recommend the use of a local area network (LAN). A wide area network (WAN) configuration is

only practical if the network bandwidth is high enough. However, in many situations, it will be necessary to run Configurator Developer remotely using a Windows Terminal Server colocated with the database server.

- Coordinate development efforts so that multiple Oracle Configurator Developer users are not working on the same Model or same parts of a Model at the same time.
- For usability and Web design considerations, structure the configuration model so that each Component, BOM Model, or BOM Option Class in Configurator Developer contains only as many corresponding controls (Features, BOM Option Classes, or BOM Options) as will fit on a single DHTML screen in the UI. Avoid scroll bars.
- Generating a default UI for a large imported BOM as a prototype or test may result in an unreasonably large and poorly performing User Interface. Instead, create a separate guided selling UI structure that exposes only those elements of the imported BOM that you want visible in the user interface. Then associate that UI structure to the BOM using Rules. Disable the UI visibility attribute of the BOM root node before executing the Create New UI command.
- Before reinstalling Oracle Configurator, back up customized HTML template files in `$OA_HTML` and `$OA_HTML/US` and any other such files copied to your Web server, as the install program overwrites the files.
- Never Generate an Active Model, Refresh or Create a User Interface, or run any schema maintenance scripts against a production database if the production database is different from the development database.
- Never use Oracle Configurator Developer for any development work on a production database if the production database is different from the development database.
- Only publish from one development database. You should only have one development instance. Publishing Models from multiple development instances to a single test or production instance could result in publications with overlapping applicability.

2.3 Helpful Hints

- Attend a training course for using Oracle Configurator Developer.
- Consider performance issues at the beginning of your Configurator project to minimize expensive redesign and system changes at the end. See the *Oracle Configurator Performance Guide* for information.

- Express your requirements for valid configurations in terms of the rules that Oracle Configurator Developer provides.
- Establish standardized and meaningful naming conventions for Model nodes and Rules. Use meaningful names for Components and Options. Names like **Response 1** and **Response 2** can easily lead to confusion.
- Define your product model first, then define and associate rules.
- Plan your user interface(s). If you plan to deploy a configuration model as a DHTML window, design a template to contain the Configurator frameset at runtime; the colors, banners, Done and Cancel buttons, and Help if desired. Sample HTML files for such a template are installed as part of your Oracle Configurator installation in `$OA_HTML` on your Web server. See the *Oracle Configurator Custom Web Deployment Guide* for more information.
- Changing the import server requires synchronization of the configuration models with the BOMs on the new import server. See the *Oracle Configurator Implementation Guide* for more information.

What's Changed in Oracle Configurator

The changes that have been made in Oracle Configurator and Oracle Configurator Developer in Release 11*i* are grouped according to the Patchset containing the change.

3.1 Patchset E Changes

The following changes have been made in Oracle Configurator and Oracle Configurator Developer, Release 11*i*, Patchset E.

- The Oracle SellingPoint application is no longer available as a testing application in Oracle Configurator Developer or for use as a runtime Oracle Configurator.
- Models in Oracle Configurator Developer have been replaced with the Repository. (see [Section 4.3, "Repository"](#) on page 4-2)
- SQL*Plus scripts have been replaced with concurrent programs and public SQL*Plus APIs. See the *Oracle Configurator Implementation Guide* for more information about the concurrent programs.
- An ATO/PTO Model (parent) with component models (children) in Oracle Bills of Material that is imported, now appears in Oracle Configurator Developer as a Model that references the associated component models, and separate individual Models for each component node. (see [Section 4.5, "Referencing"](#) on page 4-2)
- During import, Oracle Configurator imports all BOM items whether they are currently effective or not. Effectivity filtering is completed at runtime. (see [Section 4.4, "Effectivity"](#) on page 4-2 and [Section 4.6, "Publishing"](#) on page 4-3)
- Node names of imported Models in Oracle Configurator Developer are now based on the BOM model description rather than the part number.

- Importing a BOM no longer creates a "dummy" Product node as the parent of each imported BOM Model -- the BOM Model node is itself the root of the Model and the target of any Reference to that Model. This will avoid a proliferation of dummy Product nodes within a nested structure of BOM Models, but it changes previous assumptions about logic generation, CIO behavior, and the creation of Guided Selling structure within a BOM Model. In essence, it means that a BOM Model node must take on much of the design-time and runtime behavior of a Component.

Note: Upgraded models still have the "dummy" Product node.

- The profile option OM:Use Configurator now determines whether or not Oracle Configurator is launched from Oracle Order Management.
- A Feature or Option that is false only because of a default can be selected by the end user without any contradiction, so the user interface shows it as Available. The "logic state" icons no longer reflect the engine state directly. Instead, the Unknown or blank icon represents selections that are "available", such as possibly selectable without a contradiction.

Therefore, the following changes have been made to the display of true availability of logic items:

In previous releases of Oracle Configurator, all FALSE logic states were displayed as a false icon (normally a red X), however, there are two cases where this was confusing:

1. An object that defaulted to false would not give a contradiction message when selected, unlike most items with a false icon.

In Oracle Configurator 11i Patchset E, an item defaulting to false displays with the unknown icon (normally an empty box).

2. An object whose logic state is false because the maximum selections of its parent had been reached would display with the false icon.

In Oracle Configurator 11i Patchset E, this type of item displays with the unknown icon instead of the false icon. Selecting it causes the last selected item in that Feature to be deselected.

If you do not want this new functionality you must set the `cz.uiserver.lfalse_is_not_available` servlet property to true. This will give you the behavior of the pre-Patchset E Oracle Configurator releases.

For detailed information about setting the `cz.uiserver.lfalse_is_not_available` servlet property see the *Oracle Configurator Installation Guide*.

3.1.1 Oracle Configurator Servlet

The following changes have been made to the control and operation of the Oracle Configurator Servlet in Patchset E:

See the *Oracle Configurator Installation Guide* for details about controlling the Oracle Configurator Servlet.

1. For 11i Patchsets E and F, you should run the Oracle Configurator Servlet under the production version of JDK 1.2.2, using native threads. You set the JDK version and native threads in the Apache configuration file `jserv.properties`, with the following lines as the first parameters in that file:

```
wrapper.bin.parameters=-native  
wrapper.bin=/local/java/jdk1.2.2p/bin/java
```

Your location of the production version of JDK 1.2.2 may differ from that shown in the above example.

2. As of 11i Patchset E, the `killAndRestartServer` message is no longer supported. To make the Dynamic HTML in a browser interface reflect the latest changes to the Active Model in Oracle Configurator Developer, set the following property of the Oracle Configurator Servlet:

```
cz.uiservlet.dio_share
```

The use of this property in relation to the Test button in Oracle Configurator Developer was further modified in Release 11i Patchset F. See on page 3-7 for details.

3. Starting with Release 11i Patchset E, OC Servlet properties are set as `servlets.default.initArgs` in `zone.properties`, rather than as `wrapper.bin.parameters` in `jserv.properties`. See the *Oracle Configurator Installation Guide* for details about using properties of the Oracle Configurator Servlet.
4. The use of the following property has been substantially changed in Patchset E:

```
cz.activemodel
```

See the *Oracle Configurator Installation Guide* for further details.

5. The following properties have been removed in Patchset E:

```
FND_TOP
cz.frameset.allocations.top
cz.uiservlet.applet.tmp
cz.uiservlet.stylesheet.applet
cz.uiservlet.stylesheet.applet.client
cz.uiservlet.stylesheet.applet.server
```

These properties should be removed from your property configuration file for the OC Servlet (either `zone.properties` or `jserv.properties`).

The functionality formerly provided by the property `cz.frameset.allocations.top` is now provided in Oracle Configurator Developer UI module, by the control named Allocate % of Display Width to Navigation Frame.

6. The following properties are new in Patchset E:

```
cz.activemodel.lazyloadlistprice
cz.uiserver.check_heartbeat_timeout
cz.uiserver.ciolog
cz.uiserver.heartbeat_interval
cz.uiserver.lfalse_is_not_available
cz.uiserver.poll_timeout_applet
cz.uiserver.poll_timeout_applet_to_dhtml
cz.uiservlet.applet.summary
cz.uiservlet.dio_share
cz.uiservlet.pre_load_filename
cz.uiserver.lazyload
```

All of these properties are documented in the *Oracle Configurator Installation Guide*.

3.1.2 Changes to the Oracle Configurator Initialization Message

Starting with 11i Patchset E, the following changes have been made to the Oracle Configurator initialization message:

1. There are a number of new parameters to the initialization message, and some parameters have been made obsolete. The initialization message for any Release 11i is backward compatible. Existing initialization messages constructed with previous releases will continue to produce the same results, with the exception that obsolete parameters will have no effect.

The following parameters are new in Patchset E:

```
config_effective_date
config_effective_usage
config_model_lookup_date
price_mult_items_mls_proc
product_id
publication_mode
terminate_id
user_id
```

2. The following parameters (which were used to perform pricing with Oracle Applications 10.7/11.0) are obsolete in Patchset E:

```
agreement_id
agreement_type_code
gsa
invoice_to_site_use_id
order_type_id
po_number
price_list_id
responsibility_id
```

See the *Oracle Configurator Custom Web Deployment Guide* for details about the initialization message.

3.1.3 Changes to the Configuration Interface Object (CIO)

Starting with 11i Patchset E, the following changes have been made regarding the Configuration Interface Object (CIO):

1. The following classes have been added in Patchset E:

```
IUserInterface
IUserInterfaceControl
IUserInterfaceEvent
IUserInterfaceEventListener
IUserInterfaceImage
IUserInterfaceLabel
IUserInterfaceNode
IUserInterfaceScreen
```

2. The CIO now supports the new features of referencing, effectivity, and publishing. This involves additions and changes to methods of the following classes:

```
CIO
```

Configuration
Component
RuntimeNode
StateNode
StateCountNode
DecimalNode

3. There is a new class, `oracle.apps.cz.cio.Request`, that exposes system requests to the users of the CIO. Requests are modifications made to configuration using methods such as `IState.setState()`, `IInteger.setIntValue()`, or `ICount.setCount()`.
4. You can now specify a set of initial requests that will be applied to every new configuration immediately upon its creation. Such requests must be contained in a Functional Companion that extends the new class `AutoFunctionalCompanion`, using the `onNew()` method. (See [Section 4.2, "New AutoFunctionalCompanion Class"](#) on page 4-1.)
5. You can now obtain a list of the Request objects representing all current user requests in the system, by using the new method `Configuration.getUserRequests()`.
6. You can now obtain a list of the Request objects representing all previously asserted user requests that failed due to the current override, as the return parameter on any override of a contradiction performed with `LogicalOverridableException.override()`.
7. The handling of exceptions in Functional Companions has been made more robust. Exceptions that are not handled by your code result in the termination of the configuration session. Your code should handle exceptions by throwing a `FuncCompErrorException`, which causes the UI Server to roll back the transaction. Your code should no longer throw a `FuncCompMessageException`, which allows a configuration session to proceed in a possibly inconsistent state.
8. There are revised versions of `CIO.createConfiguration()` and `CIO.restoreConfiguration()`. New parameters have been added to support effectivity, publishing, and Functional Companion interaction with the User Interface. Some signatures for these methods have been removed. You should review your code against the reference documentation (Javadoc) for the CIO, especially the list of deprecated methods included in the Oracle CIO Help (HTML format).
9. The method `CIO.createConfiguration()` method no longer throws a `NotOneProductException`. You should remove the handling of this exception.

10. You can now use the method `Configuration.restartConfiguration()` to restart the current configuration instance by clearing the configuration inputs without destroying the configuration objects.
11. The use of the class `CZContext` is now deprecated for Release 11*i*. It is only to be used by customers with mobile applications using Oracle SellingPoint. Customers using Release 11*i* should use `AppsContext` or `WebAppsContext` in order to use standard Oracle Applications security.
12. As part of a performance improvement, the internal technique for loading the generated Active Model into the logic engine has been changed. This affects some Functional Companions. You can no longer get or set states or counts in the `initialize()` method of a Functional Companion. Doing so may result in `NullPointerExceptions`, and a failure to open the configuration. As a workaround, you can use the `onNew()` and `onRestore()` methods of `AutoFunctionalCompanion`.
13. The method `Configuration.getConfigHeaderId()` has been deprecated in favor of `getConfigHeaderIdLong()`, which returns a long config header id.

See the *Oracle Configuration Interface Object (CIO) Developer's Guide* for details about working with the Configuration Interface Object.

3.2 Patchset F Changes

The following changes have been made in Oracle Configurator and Oracle Configurator Developer, Release 11*i*, Patchset F.

3.2.1 Oracle Configurator Servlet

See [Section 3.1, "Patchset E Changes", Oracle Configurator Servlet](#) on page 3-3.

In 11*i* Patchset F, the behavior of the servlet property `cz.uiservlet.dio_share` has been made per-session among configuration sessions running on the same Oracle Configurator Servlet. Setting the property to `true` causes configuration sessions started with the runtime Oracle Configurator to share a cached model, and causes configuration sessions started with the Test button in Oracle Configurator Developer to ignore the cached model and fetch the latest model from the database. Setting the property to `false` causes all configuration sessions on the same servlet to ignore the cached model. The `true` setting allows the same OC Servlet to be used simultaneously for both runtime sessions (which need efficiency) and OCD

sessions (which need to test the latest changes to the model). As a general rule, you should keep the property set to `true`.

3.3 Patchset G Changes

Starting in 11*i* Patchset G, two concurrent process have been renamed:

1. Import/Refresh Configuration Models is now Populate/Refresh Configuration Models
2. Import Configuration Models is now Populate Configuration Models

The Oracle Configurator documentation continues to describe population of the Oracle Configurator schema in terms of data import.

3.3.1 Oracle Configurator Servlet

As of 11*i* Patchset G, you should run the Oracle Configurator Servlet under the production version of the latest version of JDK 1.3 for your platform. It is no longer necessary to explicitly specify using native threads. If one of your Functional Companions uses a class from the collections library, such as `List`, you must import it using this syntax:

```
import com.sun.java.util.collections.List;
```

3.3.2 Compatibility Rules

Starting with 11*i* Patchset G, there is a new internal implementation for propagating `FALSE` in Compatibility Rules and Design Chart Rules that results in slightly different behavior. Usually the new behavior will be preferable to the old behavior because more incompatible selections will be excluded by the system. In rare cases, however, the new behavior may produce outputs that differ from those produced by the old behavior.

These new conditions are known as Gated Combinations and are determined by the `GenerateGatedCombo` setting in `CZ_DB_SETTINGS` table. Upgrading to Patchset G sets `GenerateGatedCombo` to `YES`. The `YES` setting will change the behavior of existing configuration models. If you discover that this is a problem in your application, you can restore the old behavior by resetting the value of `GenerateGatedCombo` to `NO`.

Table 3–1 CZ_DB_SETTINGS for Gated Combinations

SETTING_ID	SECTION_NAME	DATA_TYPE	Default Value	Relevance and Contribution
GenerateGatedCombo	LogicGen	string	YES	Determines how a FALSE setting is propagated in Explicit Compatibility, Property-based Compatibility and Design Chart rules.

3.3.2.1 Behavior Using Gated Combinations

Compatibility Rules are expected to propagate FALSE along a row of an Option in a Feature that is selected when:

- There is no more than one Feature in this Compatibility Rule that is still unselected
- The Option belongs to the remaining unselected Feature
- The Option is unavailable (FALSE)
- The Option does not belong to another row of the Compatibility table that is invalid

OR

- All of the Features of the Compatibility table have been selected
- The Option is unavailable (FALSE)
- The Option does not belong to another row of the Compatibility table that is invalid

The behavior of Compatibility Rules has been changed in two circumstances.

1. The rule includes one or more participant Features with Minimum Number of Selections equal to zero. In other words, some participant Features are optional.

The old implementation sometimes forced available selections to be False based on the possibly incorrect assumption that the user will eventually make a selection from an optional Feature. But a Compatibility rule should be interpreted to constrain only *complete sets of selections* from *all* of the participant features. If an end user makes selections only from a subset of the participant Features, the Compatibility rule should not affect their selections. The new implementation supports this interpretation.

In this case, the new implementation causes *fewer* Options to be forced False than in the old implementation.

Example 3–1 One or more features with a minimum number of selections equal to zero

A compatibility rule constrains selections from Features X (min=1, max=1), Y (min=0, max=1), and Z (min=0, max=1). Unless and until the end user makes a selection from Z, or a rule requires that they do so, the end user should be permitted to select options X1 and Y1 even if no allowed combination of X, Y, and Z contains X1 and Y1.

2. The rule includes one or more participant Features with Maximum Number of Selections greater than one.

The old implementation did not permit inferences based on excluded Options from such Features until the maximum number of selections had been made. A Compatibility rule should be interpreted to require that every selected Option must be part of a combination allowed by the rule. Any excluded (False) Option from such a max>1 Feature could be used to rule out Options from the other participants that are compatible only with the excluded Option, even if the maximum number of selections has not been reached. The new implementation permits this inference.

In this case, the new implementation causes *more* Options to be forced False than the old implementation.

Example 3–2 One or more participant Features with Maximum Number of Selections greater than one

A Compatibility rule constrains selections from features A (min=1, max=1) and B (min=1, max=2). The rule allows the following combinations of selections from A and B: {A1, B1}, {A1, B2} and {A2, B3}. In addition, a logic rule states that some Option X Excludes B3. If the user selects X, the Excludes rule causes B3 to become False. Because of the Compatibility rule, the system concludes that A2 must be false, because no other selection from B is compatible with A2.

In most Models, these changes result in improved behavior from the end user's point of view. It avoids invalid inferences, and makes more valid ones. The difference between Unknown and False is usually imperceptible in the configuration session. Neither False nor Unknown Options appear in the runtime session. These changes affect the outcome of a configuration session only if your model contains rules that depend on the distinction between Unknown and False. There are two types of rules that can do this.

1. Logic rules that use Negates, or have Advanced Expression operands that contain the NOT operator. The consequences of these rules are propagated

when the Negates or NOT operator's operand is False but *not* when it is Unknown.

Note: This is not the case for rules that use the NotTrue operator.

Example 3–3 Propagation of False

A and B are options. (NOT A) Implies B. In this case, B is True (selected) when A is False but *not* when A is Unknown.

Since it is difficult (and inadvisable) to force all unselected Options to be False, rules of this type are not recommended in any case.

2. Numeric or Comparison rules involving Numeric Features or Totals with no initial values where the numeric result distinguishes between a value of zero and an Unknown value.

Example 3–4 Rule With No Initial Value

T is a total with no initial value. A and B are options. (A*1) Contributes To T. (T<1) Implies B. As in the example above, B is True (selected) when A is False but *not* when A is Unknown.

Rules like this are likely to produce unexpected results and should be avoided.

3.3.3 Pricing and Available to Promise Settings

Setting the value of the OC Servlet property `cz.activemodel` in `jserv.properties` turns on pricing and ATP (available To Promise) information in the Configurator window.

3.4 Patchset H Changes

The following changes have been made in Oracle Configurator and Oracle Configurator Developer, Release 11*i*, Patchset H.

3.4.1 New Settings in CZ_DB_SETTINGS Table

There are two new settings in the CZ_DB_SETTINGS table.

- SuppressSuccessMessage that indicates whether a new validation message appears after correcting a validation error

- `FLOAT_IO_PRECISION` that indicates the number of digits displayed to the right of the decimal point

[Table 3-2, "CZ_DB_SETTINGS"](#) describes the new settings in detail.

Table 3-2 CZ_DB_SETTINGS

SETTING_ID	SECTION_NAME	DATA_TYPE	Default Value	Relevance and Contribution
SuppressSuccessMessage	UISERVER	YES/NO	NO	This setting determines whether a message is displayed after fixing a validation error. NO - After fixing a validation error a meaningful success message is displayed. YES - After fixing a validation error a success message is not displayed. Note: This CZ_DB_SETTING_ID must be inserted by the user.
FLOAT_IO_PRECISION	UISERVER	Integer	9	The value is used to indicate the number of digits to the right of the decimal point that is displayed in Resources, Totals, and decimal Features. The displayed number is rounded. Valid values are 0 to 9. This data is seeded.

3.4.2 Changes to the Configuration Interface Object (CIO)

Starting with 11i Patchset H, the following changes have been made regarding the Configuration Interface Object (CIO):

- The `autoCommit` argument of `Configuration.beginConfigTransaction()` has been deprecated. You should call `beginConfigTransaction()` without arguments.
- The method `Component.setName()` has been deprecated. Instead, use `setInstanceName()`, with `getInstanceName()` and `hasInstanceName()`.

For information on the use of these new methods and interfaces, see [Section 11, "Known Limitations with Oracle Configurator Documentation"](#) on page 11-1.

See the *Oracle Configuration Interface Object (CIO) Developer's Guide* for details about working with the Configuration Interface Object.

3.4.3 Changes to Oracle Configurator Developer

Starting with 11i Patchset H, the following changes have been made in Oracle Configurator Developer:

1. The UI setting called "Tree Style" has been removed as it is now obsolete. This setting previously appeared in the **Definition** attribute when you selected the Components Tree UI node for a Components Tree (DHTML) UI.
2. You can use pictures to perform actions typically reserved only for buttons by choosing a **Button Style** of **Image** and then specifying the image file to use. At runtime the end user can perform the action you specified in Configurator Developer by clicking on the picture.

What's New in Oracle Configurator

The following sections describe which Patchset contains a new enhancement to Oracle Configurator.

4.1 Guided Selling within Order Management and TeleSales

Starting in 11*i* Patchset B, Oracle Configurator provides the ability to use Guided Selling within Order Management and TeleSales. Oracle Configurator Developer user can now control which UI the end user will see as a result of publication. See [Section 4.6, "Publishing"](#) on page 4-3 for more information about this new feature. With Guided Selling, your customer requirements can be captured during an interactive configuration session. Oracle Configurator uses these requirements to guide the customer to an optimal solution, based on their needs.

Guided Selling is available in a DHTML window that provides customized layout and controls. Flexibility is maintained by allowing either the previously available Java applet tree and grid layout or the customizable DHTML window to be used.

4.2 New AutoFunctionalCompanion Class

Starting in 11*i* Patchset B, Oracle Configurator provides the ability to modify ("side-effect") a configuration Model when a configuration instance is initialized or saved. This functionality is not allowed by the existing class `FunctionalCompanion` and its interface class `IFunctionalCompanion`. To use the new functionality, extend your own Functional Companion class from the new class `AutoFunctionalCompanion`.

No code changes are required for any Functional Companions that you have already implemented. The existing functionality and usage of `IFunctionalCompanion.autoConfigure()` remains unchanged.

4.3 Repository

Starting in 11*i* Patchset E, a new Oracle Configurator Developer feature, the Repository, is used to view and manipulate information that can be used by many different configuration Models. The user can open any Model from the Repository, but only one model can be open at a time for editing in the Model window. The Repository is the initial view for the Configurator Developer user and may contain the following types of entities:

- Folders
- Model nodes
- Effectivity Sets
- Usages

4.4 Effectivity

Starting in 11*i* Patchset E, Oracle Configurator Developer enables the user to model a configuration problem whose structure or rules change over time. At runtime, configurations are constrained only by the set of options and rules that are effective as of the specified dates.

The effectivity is defined using either an effective date range or an Effectivity Set. An effective date range can be assigned to a single, specific entity. An Effectivity Set also specifies a date range, but the set can be shared by many entities, resulting in a single point of maintenance for the group of entities referencing the set. The effectivity on the model's root is non-editable. If a model is referenced and its effectivity needs to be changed, then it should be changed on the reference root and not the root of the original model.

4.5 Referencing

Starting in 11*i* Patchset E, Oracle Configurator Developer supports the ability to reference, or 'reuse' models across multiple model structures. Complex configuration models may be defined in terms of models and sub-models. Sub-models may be developed and maintained independently and referenced by many root models. For example, a configurable product may contain a number of configurable subassemblies. Each subassembly can be developed as an independent configuration model. A separate configuration model can be created to represent the product. The product model then references the subassembly models. New

rules can be added between the product model and the referenced subassembly models.

One important use of references is to preserve the relationship among model items when they are imported into Oracle Configurator Developer. If a multi-level BOM model is imported into Developer, each model item is imported as a separate configuration model. The configuration model that corresponds to the top level BOM item contains references to the sub-models.

If a sub-model appears in the bill of more than one root model, all of the roots' configuration models contain references to the same sub-model. This permits the rules and UI for the sub-model to be maintained in one place. Because of this, a single import operation might create a number of models or references to existing models.

4.6 Publishing

Starting in 11i Patchset E, you can publish both test and production versions of your configuration models using a new user interface available in Oracle Configurator Developer and a new set of concurrent programs. When a model is published, all model information is moved from the development system to the production system. All customer information maintained in the production system remains unaffected by the publication of the model. See the *Oracle Configurator Implementation Guide* for a description of the new publishing concurrent programs.

4.7 Dynamic User Interface

Starting in 11i Patchset E, the new dynamic user Interface (UI) provides the ability to hide or show elements in the end-user UI depending on the state of the configuration at runtime. This is accomplished through the use of a Functional Companion that uses `IUserInterface` and other related new CIO classes.

Dynamic UI also provides the ability to change image or text data based on the state of a specific option. When an option is selected, either by the user or as a result of a logic rule, an image associated with that option may be automatically displayed or changed.

4.8 Dynamic Navigation

Starting in 11i Patchset E, you can also now use `IUserInterface` and other related new CIO classes in a Functional Companion to navigate to a specific screen based on the logic state of a specific option.

4.9 Server-based Logic and User Interface Generation

Starting in 11i Patchset E, performance has been improved for generating the Active Model, and refreshing the User Interface. These activities are server based activities.

4.10 Parameterized Startup of Oracle Configurator Developer

Starting in 11i Patchset E, you can start up Oracle Configurator Developer with predefined parameters. You can provide preset values for the mandatory login parameters (user, password, data source name), and bypass the OCD login screen where you normally enter them. You can also control logging with a parameter. See the *Oracle Configurator Installation Guide*.

4.11 Multi-Segment Part Numbers

Starting in 11i Patchset F, multi-segmented item names are preserved when you import BOM models into Configurator Developer. The setting of RefPartNbr in the CZ_DB_SETTINGS table determines how the Item name is displayed for each imported model structure node. In 11i Patchset F, the new default value of RefPartNbr is 'CONCATENATED_SEGMENTS'. This setting enables the BOM import program to construct BOM node names using multi-segment part numbers. See the *Oracle Configurator Implementation Guide*.

4.12 DHTML User Interface Look and Feel

In Oracle Configurator Developer, setting the user interface style to Components Type UI causes the runtime Oracle Configurator to display in DHTML. Starting in 11i Patchset F, you can further customize the look and feel of the DHTML user interface to closely match the appearance of either Oracle Applications or Oracle's Web-based applications. See the *Oracle Configurator Developer User's Guide*.

4.13 Decimal Quantities

In versions of Oracle Configurator, prior to 11i Patchset F, all quantities in imported BOM Standard Items were treated as integers. In 11i Patchset F, quantities for imported BOM Standard Items can be either integers or decimals.

The Oracle Inventory and Bills of Material applications can treat quantities as either integers or decimals. When defining an item in Oracle Inventory, you can specify whether the quantity for the item is to be entered as either an integer or decimal value when ordering the item in Oracle Order Management. You do this by setting

the OM Indivisible attribute, which is on the Physical Attributes tab of the Item Master window in Oracle Inventory. By default, the OM Indivisible check box is unchecked, which indicates that the item accepts decimal quantities. See the *Oracle Configurator Developer User's Guide* and the *Oracle Configurator Implementation Guide*.

4.14 Multiple Language Support (MLS)

Starting in 11*i* Patchset F, Oracle Configurator provides Multiple Language Support (MLS). Each Oracle Applications installation has a base language and can have additional installed languages. MLS enables you to create configuration models and one or more user interfaces in your base language, and then display the model in any language in which you do business. For a list of all languages that Oracle Applications supports, see the *Oracle 8i National Language Support Guide*, and the Oracle Configurator documentation set.

4.15 Keyboard Access in the Runtime Configurator

Starting in 11*i* Patchset F, Oracle Configurator Developer enables end users with disabilities to navigate the runtime Configurator window using only the keyboard. For example, end users can shift the focus onto each item in the runtime UI by pressing the Tab key, and then move to each item from left to right and from the top to the bottom of the page. See the *Oracle Configurator Implementation Guide*.

4.16 Data Source-Specific Test Sessions

Starting in 11*i* Patchset F, you can set separate testing parameters for each data source used by Oracle Configurator Developer. Previously, these parameters were set globally for all test data sources in the [Test] section of the `spx.ini` file. For each data source identified in the [DSN] section, you can now set values for these test parameters that can differ from one data source to the next. See the *Oracle Configurator Installation Guide* and the *Oracle Configurator Implementation Guide*.

4.17 Secure Sockets Layer (SSL)

Starting with Oracle Configurator patchset F (version 16-38), you can set up Oracle Configurator to run in SSL mode. Secure Sockets Layer is a protocol that creates a secure connection between a client and a server machine and enables you to safely transmit private documents over the Internet.

For more information, see the *Oracle Configurator Installation Guide*.

4.18 Display Options in the Runtime User Interface

Starting in 11*i* Patchset G, Oracle Configurator Developer allows the children of a BOM Option Class to be split across multiple pages in the run-time UI.

Previously, UI Generation created one UI screen for each BOM Option Class in a (Configuration) Model and populated each screen with UI controls for each child node (such as Standard Items). As a result, creating a single UI screen for Option Classes with many children caused performance problems as well as usability issues at run time. In Patchset G, you can specify the maximum number of Option Class children to display on a single screen when generating a new UI. Configurator Developer generates as many UI screens as necessary to display all items and creates a separate screen link in the run-time navigation tree to access each screen.

For more information, see the *Oracle Configurator Developer User's Guide*.

4.19 Synchronizing with BOM

Starting in 11*i* Patchset G, there is a tool available to synchronize imported configuration models with Bills of Material (BOM) on a different server. The process that updates the configuration models is referred to as synchronization to BOM.

Synchronization to BOM is invoked by the publishing concurrent processes (Process Pending Publications and Process A Single Publication) when a model is published to a remote database that was not the original import database. If there are discrepancies between the configuration model and the associated BOM on the production server, publishing results in an error and reports the discrepancies.

Synchronization to BOM is also available through the Synchronize All Models concurrent process. This concurrent process should be used when changing the import server. The process synchronizes all imported models on the development instance with the BOMs on the new import server.

There are two concurrent processes to report any discrepancies prior to running the Synchronize All Models concurrent process. They are: Check model/bill similarity or Check all models/bills similarity.

Note: It is recommended that you do a backup prior to running the Synchronize All Models concurrent process.

BOM synchronization tools are invoked by calling concurrent programs in Oracle Applications from either the Configurator Administrator or Configurator Developer

responsibility. For additional information see the *Oracle Configurator Implementation Guide*.

4.20 Math Functions

Starting in 11i Patchset G, there are advanced mathematical functions and constants available when constructing rules. These mathematical functions and constants can be used in Oracle Configurator Developer's Advanced Expression editor. The two constants that are now available are **e** and **pi**. For a list of available unary (one argument), and binary (two argument) functions, see the *Oracle Configurator Developer User's Guide*. At run time, division by zero no longer propagates a zero value but is treated as an error. The valid domains and ranges are those defined by ANSI C.

Numeric Rules that contain the division operator(/) are upgraded to Advanced Expressions and contain [/] as the operator. For example x/y is upgraded as $x [/] y$. These rules do not use the new division by zero algorithm. These rules can be edited to use the new division by zero.

Math errors are conveyed differently to Oracle Configurator Developer users than previously. Two types of errors defined as a result of mathematical function evaluations are:

- **Mathematical error:** Invalid Domain errors are inputs to the math functions that fall outside the domain definition of the math function such as $\text{sqrt}(-1)$. See the *Oracle Configurator Developer User's Guide* for the valid domain range for each new function.
- **Computational error:** Overflow or Underflow errors are returned when the result of a math function is larger than the larger positive or negative double.

4.21 Option Sorting

Starting in 11i Patchset G, Configurator Developer provides several methods of sorting Feature Options at run time. Previously, Configurator Developer only sorted Feature Options based on their order in the model structure. Now, you can choose to sort Options by order in the model or sort them in ascending or descending order by:

- Label (UI caption)
- Property value

The ascending or descending order is determined alphabetically, numerically, or alphanumerically, depending on the label text or Property value.

In addition to one of the above sort methods, you can also specify whether selectable (available) Options appear before the unselectable ones at run time. This sorting occurs dynamically in the run-time UI, with the results of the first method still in effect within both the selectable and unselectable groups.

For additional information see the *Oracle Configurator Developer User's Guide*.

4.22 Server-Side Populators

Starting in 11*i* Patchset G, the Populator mechanism has been redesigned so that Populators run exclusively in the database server. The concurrent process is Populate Configuration Models. This enhancement provides two benefits:

- improves performance when running Populators in Configurator Developer
- allows you to optionally run Populators using a stored procedure (without logging into Configurator Developer)

For more information about Populators, see the *Oracle Configurator Developer User's Guide*. For information about running Populators using a stored procedure, see the *Oracle Configurator Implementation Guide*.

4.23 Text Links

Previously, Oracle Configurator Developer enabled you to assign actions to buttons and pictures (images). This capability has been expanded in 11*i* Patchset G to allow actions to be attached to text. Text that has an associated action appears as a hypertext link in the run-time UI and the end user can invoke the action simply by clicking on the text using the mouse.

You can assign an action to:

- Text objects, including those created by UI Generation (for example, Page Titles) and those created by the user
- Labels on Features (all types), Totals, and Resources
- Captions of Feature Options when displayed in a selection list (not in a dropdown)
- Captions of individual BOM controls representing BOM Models, Option Classes, and Standard Items

- Captions of BOM Standard Items when displayed in a selection list (not in a dropdown).

The list of available actions depends on the type of UI node selected. You can assign any action to a Text object, such as the Page Title that Configurator Developer creates automatically when generating a new UI and any text that you add to a screen. Features, Totals, Resources, BOM Option Classes, and BOM Items can have an action of either Launch URL or Functional Companion Output.

For more information, see the *Oracle Configurator Developer User's Guide*.

4.24 Warnings for Unsatisfied Rules

Starting in 11*i* Patchset G, you can optionally define an "unsatisfied" message in Configurator Developer when defining configuration rules. This message appears when the end user saves a configuration, one or more options have an Unknown (available) logic state, but additional selections are required to create a valid configuration. When this occurs, you can choose to display a message that contains the rule name, the rule description, or any custom text that you enter.

A new field, UNSATISFIED_MSG_ID, has been added to the CZ_RULES table to hold the ID of a CZ_INTL_TEXTS record containing a message that is displayed when the rule is unsatisfied.

For more information about unsatisfied rules, see the *Oracle Configurator Developer User's Guide*.

4.25 CIO Method for UI Visibility

Starting in 11*i* Patchset G, the Oracle Configuration Interface Object (CIO) has added a method to determine whether the current runtime node is visible in the user interface. This method is `IRuntimeNode.isUiVisible`. See the *Oracle Configuration Interface Object (CIO) Developer's Guide*.

4.26 Public CZ_CF_API Utilities and Procedures

Starting in 11*i* Patchset G, a package of published PL/SQL APIs has been provided for performing specialized activities that assist the process of developing and deploying configuration models. The operations provided by this package include:

- establishing session identity
- setting configuration dates

- validating configurations
- copying and deleting configurations
- working with common bills
- identifying publications

See the *Oracle Configurator Implementation Guide*.

4.27 APIs for Batch Processing

Starting in 11*i* Patchset G, a package of published PL/SQL APIs has been provided for automating certain regular maintenance activities for the Oracle Configurator schema in the Oracle Applications database, thus reducing the maintenance workload. The operations provided by this package include:

- importing and refreshing configuration models with data from Oracle Applications BOMs
- generating and refreshing Active Models and User Interfaces
- publishing Active Models and User Interfaces
- executing and refreshing Item Master Populators

See the *Oracle Configurator Implementation Guide*.

4.28 Configuration Attributes

Starting in 11*i* Patchset H, the *Oracle Configurator Implementation Guide* describes a methodology for using certain features of Oracle Configurator and host applications to capture and exchange data that is not standard inventory information.

The methodology provides for these distinct strategies:

- **Input**, which permits values that are stored by a host application in a database to be retrieved by Oracle Configurator and inserted into the configuration model at the beginning of a configuration session, as the initial values of specified Features. During the session, the values can be modified in the normal way. This strategy involves customizing the host application, the configuration model, and an example Functional Companion.
- **Output**, which permits values to be captured as part of an Oracle Configurator configuration session and, after the session, be provided back to a host application for further use in a downstream process. This strategy involves defining descriptive flexfields, customizing the configuration model, and

customizing the downstream application. A new table, CZ_CONFIG_ATTRIBUTES, is added to the Oracle Applications database. The strategy also provides an example Functional Companion, which runs unmodified if you observe the described customizations to the configuration model.

See the *Oracle Configurator Implementation Guide* for more information.

4.29 Connectivity and Networks

Starting in 11*i* Patchset H, Configurator Developer users can create models that require end users to indicate how specific components are *connected* before the configuration is valid and complete. When building such a model, you create Connectors to define connectivity from a Model or Component node to any other Model in the Oracle Configurator schema. The Model selected when creating the Connector is called its target. If the Model chosen as the Connector's target exists at runtime, an end user can connect the components simply by clicking a Choose Connection button.

You can also use nodes within the target model's structure when defining configuration rules and provide controls to improve runtime navigation among connected components in the runtime UI.

As with any model, models that allow connections may have constraints defined in Configurator Developer to ensure all required connections are made, each connection is valid, and that all configuration requirements are satisfied.

See the *Oracle Configurator Developer User's Guide* for more information.

4.30 Multiple Instantiation in Solution-Based Models

Starting in 11*i* Patchset H, clients have the ability to create and independently configure multiple instances of a single component of a PTO dynamically at runtime. For example, in a PC system Model, there can be up to five different workstation components. During runtime, the end user selects and configures a workstation, then adds another instance of the workstation and configures the second workstation differently, and so on. The resulting PC system Model contains multiple instances of the same workstation but each one is configured differently. Duplicate PC system Model structure was not needed for each workstation instance.

- If the configuration model is based on the imported root BOM, it must be a PTO BOM in order to participate in multiple instantiation. Not all nodes can be instantiated multiple times.

- Contributes to and Consumes from Numeric rules can be created using the InstanceCount, MinimumInstances and MaximumInstances System Property.
- Nodes that are instantiated multiple times are no different from nodes that are not instantiated when it comes to publishing, batch validation, saving and restoring configurations.
- Refreshing a Model does not affect the number of Instances that are specified in Configurator Developer.
- The hosting applications that support multiple instantiation must pass the initialization message parameter sbm-flag when invoking Oracle Configurator.

See the *Oracle Configurator Custom Web Deployment Guide*, *Oracle Configurator Installation Guide*, *Oracle Configurator Developer User's Guide* and the *Oracle Configurator Implementation Guide* for more information.

Changes have been made to the following tables:

CZ_ATP_REQUESTS, CZ_CONFIG_DETAILS_V, CZ_CONFIG_INPUTS, CZ_CONFIG_ITEMS, CZ_CONFIG_PRICING_STRUCTURES, and CZ_DEVL_PROJECTS.

For details, refer to eTRM via Metalink, at:

<http://metalink.oracle.com>

4.31 Oracle Configurator Servlet Enhancements

Starting in 11i Patchset H, changes in the way that the Oracle Configurator Servlet uses Java system properties make it unnecessary to add properties to the `zone.properties` file. Now, the Oracle Configurator Servlet can derive all required servlet configuration information from the hosting application's session request and uses default values for other required properties. These changes also make it much easier to run the servlet on a different host (server machine), if required.

Although it is not necessary to add properties to the `zone.properties` file, you may want to define some properties if, for example, you want to deploy additional servlets that display HTML pages in different languages. If you do add properties to `zone.properties`, these properties take precedence over information derived from the session request. When adding properties to the configuration files, you can specify the property's location either by entering a fully qualified path or a relative URL. The recommended method is using a relative URL, as this method enables the OC Servlet to gather its configuration information from the session request.

The new `cz.uiservlet.versionFuncsavail` property is used by both the Java applet and the DHTML windows. This property determines whether the servlet responds to any message entered in a Web browser. If the property is set to `False`, then the servlet does not respond to a test message such as:

```
http://hostmachine:portnumber/configurator/oracle.apps.cz.servlet.UiServlet?test=version.
```

The default value is `True`. For more information, see the *Oracle Configurator Installation Guide*.

4.32 Adding Properties to Imported BOM Nodes

In Patchset H, you can add Properties to imported nodes, including BOM Models, BOM Option Classes, and BOM Standard Items. However, the following restrictions apply:

- The new Property cannot have the same name as one that already exists on an Item or Item Type in the Item Master.
- You cannot add Properties to a node that is a Reference to a BOM Model or to any of the nodes within the referenced structure.

4.33 Displaying Node Location in Runtime Messages

In Patchset H, you can choose whether to display a node's full path in messages that appear at runtime for a DHTML UI. For example, if Option 1 appears in a contradiction message and this setting is enabled, the message includes the Option's location in the Model structure (such as Component A: Feature X : Option 1). To display a node's full path in runtime messages, select the **Display node names in Runtime messages with Full Path** box in the **Runtime Message Style** region.

4.34 Migration of Oracle Configurator Data

As of Configurator Developer 17.42, there are new concurrent programs to move the CZ data from one 11i instance to a newly installed, empty, and patched instance with the same CZ schema version.

The following steps should be followed:

1. Define Remote Server for the source database. This is needed in order to run the Migration concurrent programs.

Log into the new target 11i database instance and run the Define Remote Server concurrent program. For details see the *Oracle Configurator Implementation Guide*.

2. Enable the Remote Server you defined in step 1. Enabling the remote server creates a database link from the new target database to the source database.
3. Setup Migration

As Configurator Administrator responsibility, run the Setup Configuration Data Migration concurrent program. You will be prompted for the "Source Name" of your source database instance.

4. View Log (in the Requests Form) will display any issues found during data migration such as:
 - If the specified Instance (source) name specified doesn't have a link name associated with it
 - If the associated link is not functional
 - If there was a database error while populating the control table
 - If an unexpected database setting value was found
 - The different versions of the source and target schemas
 - Differences in table structure

5. Data Migration to 11i

As Configurator Administrator, run the Migrate Configurator Data concurrent program from the 11i target instance. You will be prompted "Proceed when database not empty?" The migration should only be run against an empty target database, for example the new 11i Configurator schema.

If for some reason the migration did complete successfully due to some issue, for example rollback segments problem, the migration needs to be rerun after the roll back segments are fixed. If the migration is repeated, then the "Proceed when database not empty?" can be answered Yes.

6. If the original source instance contained imported BOM data, then the new target instance must be synchronized after migration has successfully completed. See the *Oracle Configurator Implementation Guide* for details.

Migration does not:

- Transfer data from the CZ_IMP_ tables
- Transfer data from any custom table in the CZ schema whose name does not begin with CZ_

- Transfer saved configurations

Because there is a lot of data and migration time associated with saved configurations, it is not recommended that saved configurations be migrated.

4.35 Setting Effectivity Dates Across Multiple Effectivity Sets

As of Configurator Developer 18.47, Oracle Configurator Developer users can edit the Effectivity dates for multiple Effectivity Sets at the same time.

To edit multiple Effectivity Sets, choose **Tools > Mass Edit Effectivity Sets** from the Repository window. A folder hierarchy of Effectivity Sets is displayed (Effectivity Set Selection window) in Name order. To see the Effectivity Sets ordered by either Description, Effective From or Effective To, reorder them using the **Sort by** field as well as two additional sorting fields for a secondary and tertiary sort. The sorting options available are Name, Description, and Start or End date. Each field can be sorted in either an Ascending or Descending order. See [Table 4-1](#) for an example of the available sorting options.

Table 4-1 Example of the Sorting Option in Mass Edit Effectivity Sets

Sort by:	Sort Option	Sort Order
Sort by	Start Date	Descending
Then by	Name	Ascending
Then by	Description	Ascending

After specifying sort options, click **Sort**.

Select the Effectivity Sets that you want to edit, then click **Edit**. In the **Edit Effectivity Dates** window, choose whether you want the selected Effectivity Sets to be **Always Effective**, **Never Effective**, or select **Change** to modify the start and end dates. If you select **Change**, a dropdown list displays three options:

- Start Date only
- End Date only
- Start and End Date

Select the **Ignore Warnings** check box if you do not want to view warnings about how the selected Effectivity Sets are used. By default, the check box is not selected.

Click **OK** to validate the new settings. Changing the dates on Effectivity Sets maintains the dates defined on rules in any Rule Sequences. Therefore,

Configurator Developer lists the changes that will occur if the changes are made, and allows you to either continue or cancel the operation. If the new dates cause any errors in a Rule Sequence, Configurator Developer does not update the selected Effectivity Sets, but allows you to enter new dates.

Configurator Developer reports all errors and warnings in a separate dialog. If there are any errors, Configurator Developer does not make the changes and you must modify the dates before proceeding. If there are warnings, click **OK** to make the changes anyway; otherwise, click **Cancel**.

4.36 Model Publishing Window Enhancements

As of Configurator Developer 18.47, the Model Publishing window contains a **Refresh** button and the ability to sort the list of publications. Previously, the only way to refresh the list and status of publications was to close and then re-open the Model Publishing window. Now you can update the list either by clicking the **Refresh** button or by closing and then re-opening the Model Publishing window.

To modify the order in which publications appear, click on the **ID**, **Model**, **UI**, **Instance**, **Published**, or **Status** column heading. For example, click on **Model** to display the list of publications alphabetically by Model name. The first time you click on a heading, the list is sorted in ascending order; click same heading again to display them in descending order.

4.37 Find Node Function in the Advanced Expression Editor

As of Configurator Developer 18.47, the Edit Advanced Expression window contains a **Find** button and text input field that enables the user to quickly locate a node in the Model's structure. To perform a search, enter a search string in the text box and then click **Go**. The search highlights the first node in the structure containing the string you entered. Clicking **Go** again finds the next node that matches the search string. The input field is not case sensitive.

Software Updates in Oracle Configurator

[Table 5-1](#) lists reported issues that have been resolved in Oracle Configurator, Release 11*i*. For each issue, the table lists the number, description of the issue, and when the issue was resolved. This list is cumulative for all Oracle Configurator 11*i* releases and is in ascending order by issue number.

Table 5-1 *Resolved Issues*

Number	Issue	Resolution
1046715	Upgrade/Merge 4.2 integrated database into an 11 <i>i</i> install.	Code fixed in build 11.5.1.14.31.
1054064	On Win 95 system, repeatedly editing properties causes an out of memory error.	Code fixed in build 11.5.0.13.26.
1085830	Cannot "consume from" the count of an imported option.	Code fixed in build 11.5.0.13.21.
1085846	"Contributing to" the count of an imported option results in an incorrect count.	Code fixed in build 11.5.0.13.21.
1099382	No borders in dropdown lists while scrolling.	Created a black border layer explicitly for IE and NS. Code Fixed in build 11.5.0.13.23.
1103723	Cannot save a configuration after saying "No" to an unsatisfied configuration.	Code fixed in build 11.5.0.13.19.
1105625	Once an invalid integer Feature value is enter, the new corrected value is not retained.	Code fixed in build 11.5.0.13.23.
1105884	Message box not displaying message in model-driven UI.	Code fixed in build 11.5.0.13.23.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1106794	When clearing text or numeric features, the logic state is not set to unknown.	Code fixed in build 11.5.0.13.21.
1106937	Model tree display is incorrectly updated when a Component is deleted.	Code fixed in build 11.5.0.13.21.
1107213	When selecting an option, causes a numerical circular dependency error.	Unattended numeric cycles: result of new rules implementation. Numeric cycles are no longer checked during retraction. Engine updates have been made in build 11.5.0.13.20 to support this change in retraction behavior.
1107312	Model updates to populate controls not occurring after deleting a component.	Code fixed in build 11.5.0.13.21.
1107342	Validation messages continue to display after validation failure goes away.	Code fixed in build 11.5.0.13.21.
1108527	Tree shows unsatisfied items even when the configuration is satisfied.	Code fixed in build 11.5.0.13.21.
1108738	No screen update after deleting a component and checking the summary screen.	Code fixed in build 11.5.0.13.21.
1114123 1117958	The message for new validation failures is the same as those corrected and reported with a deleted flag.	Code fixed in build 11.5.0.13.22 11.5.0.13.21.
1114646	Limitation in creation of new user from model-driven UI. Cannot accept the default.	Code fixed in build 11.5.0.13.23.
1116866	CIO: Calling getConfigHeaderOpportunityHeaderId() in the class Configuration returns -1.	Code fixed in build 11.5.0.13.22.
1117368	Log filename contains a ":" which is an invalid character for windows filenames.	Code fixed in build 11.5.0.13.21. The time zone is no longer required in the SimpleDateFormat.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1117855	Incorrect values in counted options when scrolling.	Code fixed in build 11.5.0.13.22.
1117862	Option count contradictions are not displaying when a mouse is used and the Feature is set for 1 to 1.	Code fixed in build 11.5.0.13.23.
1117972	When clicking on the label section of the counted option in the DHTML window, the option value toggles.	Code fixed in build 11.5.0.13.21.
1120405	Developer allows Items within a given Item type to have the same names.	Code fixed in build 11.5.0.13.27 to check for Item Master type duplicate names.
1120860	Background colors change in DHTML window.	Code fixed in build 11.5.0.13.21.
1123744	Developer crashes while creating a Design Chart rule.	Code fixed in build 11.5.0.13.21.
1125726	UI Server renders hardcoded filenames for logic icons.	Code fixed in build 11.5.0.13.21. The Java Script displays icons specified in Developer.
1138625	Copy and Paste of PS_NODE ignores UI display setting.	Code fixed in build 11.5.0.13.27.
1138738	Static text objects in DHTML should support wrapping.	Code fixed in build 11.5.0.13.27. Static text objects are set to do wrapping. User must resize the control in Developer to display it properly.
1151716	Serious internal error when scrolling the model structure tree in Developer	Code fixed in build 11.5.4.15.56.
1169275	Customized violation message text does not always display at runtime	Code fixed in build 11.5.4.15.27.
1186932	Item description not showing up in the summary screen for non-imported items	Code fixed in build 11.5.0.14.9.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1197702	Refresh UI fails after upgrade	Code fixed in build 11.5.0.14.9.
1182731	Fatal logic exception raised when incrementing an integer value above maximum.	Code fixed to display appropriate error message in build 11.5.0.14.11.
1185969	A specific rule in a customer's model causes a crash when generating logic.	Database dump file installed and schema upgraded. Rule no longer corrupted in build 11.5.1.14.10.
1192629	Blank total causing error in logic generation.	Code fixed in build 11.5.1.14.11.
1195145	Deletion of a parent user interface node causes an orphan node in the Oracle SellingPoint application.	Code fixed in build 11.5.1.14.11.
1197023	Developer intermittently crashes on exit.	Code fixed in build 11.5.0.14.10.
1203590	"Configuration overwrite not allowed" error received when changing a configuration after minimizing it.	Code fixed in build 11.5.0.14.10.
1208689	When using the DHTML window for testing, pricing and ATP calculation procedure returns an SQL exception.	Code fixed in build 11.5.0.14.12.
1212263	Availability is not shown when clicking on the Availability button.	Code fixed in build 11.5.0.14.13.
1221057	Changes in the label of the Autoconfig button are lost after the UI is refreshed.	Code fixed in build 11.5.1.14.14.
1224396	Developer crashes while moving from a simple to advanced expression.	Code fixed in build 11.5.1.14.10.
1224872	Numerical circular dependency error.	Code fixed in build 11.5.0.14.16.
1228521	DHTML summary screen displays empty white box when there are no prices.	Code fixed in build 11.5.0.14.13.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1230348	Overconsumed Resource message gets lost when switching to root node.	Code fixed in build 11.5.1.14.15.
1231269	Logic generation doesn't give an error if the object type has changed.	Code fixed in build 11.5.0.14.14.
1231413	Copy and Paste of a rule between Projects causes model corruption	Code fixed in build 11.5.3.15.26.
1236408	Incomplete rule warnings should be logged to the log file or displayed at the end of rule logic generation.	Code fixed in build 11.5.1.14.14.
1236412	Rule ID should be logged in log file while generating logic.	Code fixed in build 11.5.1.14.14.
1236416	Logic retraction causes the total value to change unreasonably.	Code fixed in build 11.5.1.14.15.
1238467	The algorithm for wrapping text for long labels is incorrect in the DHTML user interface.	Code fixed in build 11.5.0.14.15.
1241587	Numerical circular dependency error. (same bug as 1224872 for different customer model)	Code fixed in build 11.5.1.14.17.
1267116	No way to retrieve user selections	Code fixed in build 11.5.4.15.29.
1274016	Copied rules display contradiction message with original rule's name	Code fixed in build 11.5.4.15.43.
1277761	An imported Model's Properties can not be accessed in the Advanced Expression window in OC Developer.	Code fixed in build 11.5.7.17.14.
1286907	Remove all dependencies on images.	Code fixed in build 11.5.2.14.31.
1290831	Error creating configuration: Oracle.Apps.cz.logic.engine fatal load file exception.	Code fixed in build 11.5.1.14.27.
1295913	CRM 11.5.1 initialize message is not returned when returning with error status.	Code fixed in build 11.5.1.14.30.
1302980	Renaming a newly-created Model node (in lefthand panel) causes error #34003.	Code fixed in build 11.5.1.14.30.

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
1305097	Dragging and dropping Items from the item master to the model structure is causing OC Developer to terminate.	Code fixed in build 11.5.1.14.30.
1324591	Use configurator virtual path rather than servlets virtual path.	Code fixed in build 11.5.1.14.32.
1348442	Guided selling in Order Management failed to revise a configuration.	Code fixed in build 11.5.2.15.5.
1349229	getStringValue in class Property throws dio.NullDbValue exception	Code fixed in build 11.5.4.15.38.
1353194	Two Update buttons in guided selling are very confusing.	Code fixed in build 11.5.2.14.33.
1353204	Clicking the Cancel button on browser should clean out everything on the browser.	Code fixed in build 11.5.2.14.33.
1353207	Messages in message box are not wrapped.	Code fixed in build 11.5.2.14.33.
1359671	Running Repopulate takes a long time.	Code fixed. Schema changed to 14e.
1383870	Refresh UI fails for changing dropdown to combo box	Code fixed in build 11.5.4.15.28.
1415796	Engine fatal load file exception:Error loading file:Null:Unknown invalid numeric argument	Code fixed in build 11.5.2.14.47.
1427546	If you have a product under a product, Refresh UI doesn't remove the buttons	Code fixed in build 11.5.1.14.58.
1427566	Refresh UI is not working correctly for products under products	Code fixed in build 11.5.3.14.58.
1449582	High precision numeric data is not handled by CZ schema during import	Code fixed in build 11.5.4.15.41.
1449629	After refresh model process, data for other models is deleted	Code fixed in build 11.5.4.15.41.
1459477	BSADSL:Text in labels does not wrap in OC DHTML window	Code fixed in build 11.5.4.15.23.
1473527	After updating the quantity, the total price doesn't get updated.	Code fixed in build 11.5.15.1.13

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1522882	GETINITPARAMETERS() returns null when called in onONNEW() AUTOFUNCTIONALCOMPANION	Code fixed in build 11.5.3.14.62.
1523793	11i doc does not mention the new Purge script from bug 1269004	Code fixed in build 11.5.4.15.54.
1531031	Functional Companion button does not get clicked in IE 5.5	Code fixed in build 11.5.2.14.
1531642	In 11i the new Purge patch does not work. CZ_BASE_MGR package doesn't exist.	Code fixed in build 11.5.4.15.45.
1533232	Changing an integer Feature to a counted Option after the Model was generated, produced a runtime error.	Code fixed in build 11.5.7.17.13.
1548963	UI_OMIT flag in CZ_PS_NODES gets overridden after import	Code fixed in build 11.5.4.15.x.
1550328	The Import/Refresh concurrent process does not handle cases where Items, Option Classes or Models in the BOM structure have been deleted.	Code fixed in build 11.5.6.17.3.
1575104	The concurrent program to Set Configurator Developer Settings does not allow the manual setting of ResolvePropertyDataType	Code fixed in build 11.5.5.15.54.
1610943	WebUI Initialization Failure error occurs when launching DHTML through the TEST button in Developer	Code fixed in build 11.5.5.15.58.
1611144	Unable to copy model into a folder in the repository	Code fixed in build 11.5.4.15.63.
1619524	Cannot refresh existing UI in copied model	Code fixed in build 11.5.4.15.64.
1633756	Error occurs when referenced node used in Comparison rule	Code fixed in build 11.5.4.15.60.
1633803	Icon type changing from referenced to non-referenced in Compatibility rules	Code fixed in build 11.5.4.15.64.
1643066	An unexpected contradiction is returned when setting the count of BOM nodes.	Code fixed in build 11.5.15.1.08.
1643427	Validate Functional Companion gets wrong error message	Code fixed in build 11.5.5.15.65.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1661158	Modifying the default font on a root node is lost after performing an upgrade.	Code fixed in build 11.5.5.15.67.
1666345	The system hangs when pressing the configurator button for PTO model items that do not have a BOM attached.	Code fixed in build 11.5.5.15.70.
166851	Unable to generate an Active Model or view existing configuration rules within projects after applying patch 1543705.	Code fixed in build 11.5.5.15.73.
1695451	After selecting options for a configured item, you cannot activate the Configurator window message by pressing the Enter key. You must click the OK by using the mouse.	Code fixed in build 11.5.5.15.87
1697199	Due to the fact that Items can be deleted from Master Items, issues arise when there are rules involving item properties.	Code fixed in build 11.5.8.18.31
1699067	Validation errors from Functional Companions are not handled properly.	Code fixed in build 11.5.5.15.70.
1699321	Functional Companion can not force a screen to refresh.	Code fixed in build 11.5.5.15.70.
1700644 1700676	Functional Companion performance problem times out the browser.	Code fixed in build 11.5.5.15.82
1702996	A Functional Companion is unable to change tree node captions.	Code fixed in build 11.5.5.15.70.
1703524	There is a new API isVisible() on IRuntimeNode. It returns true if the node appears as a selection in UI. Note that a node with isVisible false is still included in a Show All Nodes UI.	Code fixed in build 11.5.5.17.1.
1714211	Publishing is taking a long time to publish a model.	Code fixed in build 11.5.5.15.78.
1717745	Unable to start the CZ engine after upgrading to 11.5.5.	Code fixed in build 11.5.5.15.70.
1731469	Upgrading from 11.5.3 to 11.5.5 resulted in a change of the UI layouts. Controls were repositioned.	Code fixed in build 11.5.5.15.82.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1734292	When trying to make a configuration valid after it was previously invalid, resulted in a failure.	Code fixed in build 11.5.5.15.80.
1734693	A previous patch breaks iStore.	Code fixed in build 11.5.5.15.75.
1737010	Configure button was not appearing on iStore.	Code fixed in build 11.5.5.15.81.
1743109	Generating an Active Model with nested ATOs, causes a "...contains no data, no logic generated..." message.	Code fixed in build 11.5.5.15.80.
1744952	UI Server error occurs when Data Type Integer Feature initial value is not entered in Developer.	Code fixed in build 11.5.5.15.80.
1748859	Using Edit>Find in OCD causes the PC to hang.	Code fixed in build 11.5.5.15.78.
1749710	Referenced components have incorrect explosion IDs.	Code fixed in build 11.5.5.15.80
1749715	Response time when clicking on the GoTo button on the Effectivity Member screen is either very slow or hangs the machine	Code fixed in build 11.5.5.15.79.
1752994	After upgrading to 11.5.5, some of the OCD rules were not working.	Code fixed in build 11.5.5.15.80.
1755350	When publishing a model containing model references, the resulting published parent model cannot navigate to children through buttons with GoTo actions.	Code fixed in build 11.5.5.15.80.
1755606	When in Model's Description View and the description is changed, returning to View by Name displays the newly entered Description not the original name.	Code fixed in build 11.5.5.15.75.
1756846	Purge does not do intermittent commits according to the 'batchsize' db_setting, causing users to run out of rollback segment space.	Code fixed in build 11.5.5.15.82.
1763174	Effectivity Set's chaining rules does not apply the dates correctly.	Code fixed in build 11.5.5.15.76.

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
1764546	Error message received when trying to restore an invalid configuration in IE.	Code fixed in build 11.5.5.15.80.
1765517	A set of published APIs to perform in batch mode all the configuration active model & Ui generation & refresh operations in order to handle the day to day maintenance activities. Documentation of the APIs can be found in the <i>Oracle Configurator Implementation Guide</i> .	Code fixed in build 11.5.5.17.11.
1700644 1776282	Functional Companion was generating a large number of models and causing the browser to time out and return an error message.	Code fixed in build 11.5.5.15.82.
1776285	Clicking on "GoTo" a node which is referenced in the UI, results in a "Runtime error" message.	Code fixed in build 11.5.5.15.82.
1784812	Unable to restore a saved configuration.	Code fixed in build 11.5.5.15.82.
1788823	Unable to publish a model at runtime when the applicability date from and applicability date until are the same.	Code fixed in build 11.5.5.15.82.
1788936	Configure button was not appearing on iStore.	Code fixed in build 11.5.5.15.82.
1793236	When restoring a saved configuration into a newly upgraded database, a NullDbValue exception was returned.	Code fixed in build 11.5.5.15.84.
1793249	DHTML UI, browser becomes inactive and a segmentation violation error appears in the log file.	Code fixed in build 11.5.5.15.84.
1793255	Adding 2 of the same optional Components causes the defaults from the first Component to be lost.	Code fixed in build 11.5.5.15.84.
1795375	Exception error when running a UI.	Code fixed in build 11.5.5.15.84.
1796791	A new publication does not reflect the modifications made to the rules.	Code fixed in build 11.5.5.15.88.
1798528	iStore shopping cart does not come up after configuring an item.	Code fixed in build 11.5.5.15.84.
1800750	Deleting components was taking a long time.	Code fixed in build 11.5.5.15.88.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1805457	Items do not appear in the Summary Screen when launching Configurator from OM.	Code fixed in build 11.5.5.15.85A.
1807874	The border in Features and Text is lost after an upgrade	Code fixed in build 11.5.5.15.89.
1808340	When configuring an item through iStore, clicking on the Done button produces a blank screen or a Java stack error.	Code fixed in build 11.5.5.15.85A.
1811550	Inconsistent numeric rule behavior between 11.5.3 and 11.5.5.	Code fixed in build 11.5.5.15.87.
1818611	Received an error message when trying to make an imported BOM's components 'Not Visible'.	Code fixed in build 11.5.5.15.89.
1823610	Unable to enter a negative value for an Option property.	Code fixed in build 11.5.7.17.13.
1826898	After adding an Autoconfiguration Functional Companion rule and then refreshing the existing UI, the button for that Functional Companion did not appear.	Code fixed in build 11.5.5.15.89.
1828907	A non-overridable contradiction stating the cause as the rule is returned instead of an overridable contradiction telling the user that if A is deselected then B would become Logic False.	Code fixed in build 11.5.5.15.89.
1829195	Unable to book an order imported by the process_order using the Sales Order form.	Code fixed in build 11.5.5.15.89.
1829415	Possible to log onto Developer under a non-base language.	Code fixed in build 11.5.5.16.20.
1837508	Running of a CZ patchset takes a long time.	Code fixed in build 11.5.5.15.91.
1839780	Batch validation causes a ClassCastException	Code fixed in build 11.5.5.15.89.
1840270	Running the Populate Configuration Model concurrent program does not import models if models were deleted from the repository.	Code fixed in build 11.5.5.15.92.
1840570	Improve batch validation logging.	Code fixed in build 11.5.5.15.89.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1840587	Guided Selling from forms doesn't work for load balanced scenarios.	Code fixed in build 11.5.5.15.89.
1842773	Publishing from one instance to another takes a long time.	Code fixed in build 11.5.5.15.89.
1853061	An upgrade unconditionally resets all values in CZ_RULES.SEQ_NBR to 0 thus causing rule sequencing information to be lost.	Code fixed in build 11.5.5.15.94.
1854713	Component codes have a leading dash.	Code fixed in build 11.5.5.15.94.
1854729	Component codes are not always correct.	Code fixed in build 11.5.5.15.94.
1855229	When importing models, not all models are imported.	Code fixed in build 11.5.5.15.94.
1856836	When generating an Active Model, there was a Logic rule error.	Code fixed in build 11.5.5.15.95.
1857340	The UI does not recognize the change in the Functional Companion type whenever it is changed. Refresh UI does not change the status.	Code fixed in build 11.5.5.17.1.
1864856	The ability to use the tooltip functionality to provide runtime help to users.	Code fixed in build 11.5.5.15.95.
1865026	When a rule is disabled and a model is republished, the republishing doesn't make a new copy of the project, and the disabled rule is still enabled in the latest publication after republishing.	Code fixed in build 11.5.5.15.95.
1870532	After upgrading, received rule violation messages when trying to change a selection that would fire the Compatibility rules.	Code fixed in build 11.5.5.15.95.
1877712	Unable to create client adapter, and cannot parse the XSL stylesheet when using secure socket layer (SSL or httpds) implementation of Apache.	Code fixed in build 11.5.5.15.96.
1879845	Relaunching a model in DHTML from OM fails.	Code fixed in build 11.5.5.15.1.00.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
1891926	When trying to either preview or create a Populator under a Product or a Component, the error "Could not preview Populator Result [Error 6] Overflow: Could not load Feature data: Populator preview error" is displayed.	Code fixed in build 11.5.6.17.12.
1892056	CZ_DB_SETTINGS table does not contain a list of values (LOV) for all the settings available.	Code fixed in build 11.5.5.17.15.
1899912	The CIO should use a different prefix for arguments as the single slash is the same symbol used to separate directories of a Unix path. /lp/ will be treated as path while /lp will be treated as an argument to turn on list pricing.	Code fixed in build 11.5.5.17.13.
1934749	Configuration Validation Error during Book Order from OM. All configured items received a validation error during booking.	Code fixed in build 11.5.5.1.03.
1939951	Error message returned when writing a Numeric rule on a component sets in a BOM model.	Code fixed in build 11.5.8.18.9.
1940122	Batch validation fails when booking the same order.	Code fixed in build 11.5.15.1.04.
1941407	OM form colors change after navigation to Configurator.	Code fixed in build 11.5.4.15.05.
1944559	If a model has identical referenced bills with different effectivity dates then the batch validation fails.	Code fixed in build 11.5.15.1.05.
1956683	Several ATO models were individually imported as one bill. The parent ATO model was then imported which the earlier ATO models were attached. The concurrent program did not raised any error after the process was over. After opening the project representing the top level parent ATO model, two children ATO models did not show up.	Code fixed in build 11.5.15.1.07.
1961339	Labels are not being copied with the published Model.	Code fixed in build 11.5.17.12.
1964898	When a Project Report is generated from Developer, output omits the text for NotTrue.	Code fixed in build 11.5.5.15.11.

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
1981696	If a model is large, Configurator Developer stops responding when an object is dragged and dropped onto a new location.	Code fixed in build 11.5.6.16.27.
1982753	It takes 20 - 30 seconds to refresh the screen in DHTML.	Code fixed in build 11.5.5.15.08.
1988070	During configuration of an item in the Configurator, switching to "Summary" and then again back to "Configuration" to re-configure, some of the previously selected options are no longer shown.	Code fixed in build 11.5.5.15.11.
1988258	Changing the structure in a referenced model, results in a logic gen error in the parent.	Code fixed in build 11.5.6.16.27.
2003943	DHTML Window in Order Management Fails to Work on published models	Code fixed in build 11.5.15.1.11.
2012542	When closing the DHTML window (clicking Done button) in Netscape, a message box pops up with the message -- Close Window _blank?	Code fixed in build 11.5.5.1.11.
2020088	When the concurrent request to publish configuration model failed, the status was not reflected in Configurator Developer.	Code fixed in build 11.5.5.17.14.
2021428 2047612	Unable to cut and paste models into a new folder in Oracle Configurator Developer.	Code fixed in build 11.5.7.17.13.
1986384 2025951 2053227 2055735	A selection of options in the Configurator Components Tree UI produce the error: "Numeric Circular Dependency: result has an effect on the input'.	Code fixed in build 15.5.15.1.10.
2026077	When selecting an existing model in Configurator Developer, the error Number 94 from LogFacilityObject<-SpComponet (ADD) FillData: Internal Error: [ERROR 94] Invalid use of Null: Failed to populate component data message appears	Code fixed in build 11.5.7.17.13.
2014272 2026401	Root node of models does not display Properties in Advanced Expression window when initially loaded. Must click on another node and click back again at the root node to display the Properties associated with it.	Code fixed in build 11.5.5.1.10.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2026981	When clicking on Done and there is a problem in the configuration. The return servlet set valid_configuration = false and other parameters as false or error in return XML. The "message_type" close tag is missing "/".	Code fixed in build 11.5.7.17.14.
2028416	When selecting the Test button on the top level Model in Oracle Configurator Developer, there is a Go To Button to the Referenced Model's User Interface. The Referenced Model's User Interface is displayed with the required fields missing the red asterisk that is displayed to indicate the field is required.	Code fixed in build 11.5.15.1.13.
2043997	Parentheses are missing in a subexpression in the Model Report for Rule.	Code fixed in build 11.5.15.1.13.
2044046	Unable to book an order in OM for a valid configuration. Resource Overconsumed error is received.	Code fixed in build 11.5.15.1.13.
2047197	After deleting a UI in Developer, the publication record in Developer does not show a UI. But the UI is still referenced from the calling application.	Code fixed in build 11.5.7.17.17.
2047581	Queries against CZ_EXV_ITEM_MASTERS gave rise to full table scans of the BOM_EXPLOSIONS table. This may impact import performance.	Code fixed in build 11.5.5.
2058777	The Go To button for a referenced model doesn't work on a published model	Code fixed in build 11.5.17.15.
2059858	DIO recached captions and tool tips for every session.	Code fixed in build 11.5.16.34.
2067140	First entered rules for an ATO model that was referenced by PTO models. Deleted the rules from the ATO model and added rules to the PTO model. There was data corruption in the rules. Rules from the deleted folder were executing at runtime.	Code fixed in build 11.5.7.17.17.
2069000	Performance issue on the DHTML window. When running the DHTML window, if you keep flipping screens, the memory usage keeps going up.	Code fixed in build 11.5.6.16.36.

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
2072156	Developer hangs while creating a Property-based Compatibility rule.	Code fixed in build 11.5.7.17.16.
2074414	CZ_IMP_DECIMAL_QTY_FLAG profile option is loaded for every BOM node.	Code fixed in build 11.5.5.16.35.
2076308	The red asterisks indicating a required field, are missing in the bottom level option screen.	Code fixed in build 11.5.15.1.14.
2077643	Performance problem when importing from a remote server.	Code fixed in build 11.5.15.1.14.
2093732	When the properties are checked in the repository for a model, the created by and modified by both show the current user. The original created by and modified by do not show.	Code fixed in build 11.5.8.18.1.
2096747	An error message is received when the test button is clicked in Oracle Configurator Developer because the applethtm.htm file is missing some jar files	Code fixed in build 11.5.8.18.11.
2096772	On the Summary Screen, there are extra slashes appearing in the word User's. This was due to the apostrophe not being escaped properly.	Code fixed in build 11.5.6.16.38
2098408	Deleted components child inputs remain.	Code fixed in build 11.5.8.18.1.
2101964	There was a primary key violation for CZ_COMBO_FEATURES when creating a rule for the same feature in a different model reference.	Code fixed in build 11.5.7.17.18.
2105680 2105681	The DHTML window is rendering the tree control even when the tree is hidden using the allocate property. This led to poor performance.	Code fixed in build 11.5.6.16.38.

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2108915 2114311	Numeric and Comparison Rule gives a 'Type mismatch' error. Returning to a rule after changing focus, by going to another rule, gives a 'Type mismatch error' and removes the Total or Numeric Feature and replaces it with a Constant [1]. Generating the Active Model does not return any error, but the rule does not contribute the proper value to the BOM item count.	Code fixed in build 11.5.6.16.38
2108922	When a rule is violated, the rule description is not displayed. The user sees a message window with 'Null' rather than the description.	Code fixed in build 11.5.6.16.39.
2110004	If an option class is mandatory and an option is not selected, when the DONE button is clicked, the configurator warning message shows more than one instance of the option class that requires an option selection.	Code fixed in build 11.5.8.18.11.
2111838	DHTML performance is slow for large trees even when the tree is hidden.	Code fixed in build 11.5.18.11.
2111855 2111872	The tree is distorted when the Functional Companion calls the refreshFrames method.	Code fixed in build 11.5.6.17.19.
2113596	When all required items are selected, a dialog box displays a message that one component is not satisfied.	Code fixed in build 11.5.8.18.05.
2115693	In the Model report, Functional Companions are not shown in the rule section.	Code fixed in build 11.5.8.18.10.
2116269	When creating an Explicit Compatibility rule, the options for an option class do not show up if the option class is on a different model than the original option class put on the rule.	Code fixed in build 11.5.8.18.1.
2138805	When Dynamic visibility is turned On, the controls flash before disappearing on page switches.	Code fixed in build 11.5.8.18.1.
2141595	The hasIntegerValue method from the IRuntimeNode class returns false when the node contains an integer value.	Code fixed in build 11.5.8.18.2.

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
2141601	The hasTextValue method from the IRuntimeNode class returns false when the node contains a text value.	Code fixed in build 11.5.8.18.3.
2141617	When the CIO method isDefaultAffected() is invoked on the CIO OptionFeature object, there is a NullPointerException exception crash at runtime.	Code fixed in build 11.5.8.18.17
2143055	If there are identical models in different Option Classes, the Go To button reference drop down shows the model once even if it is referenced multiple times.	Code fixed in build 11.5.8.18.15.
2143115 2232451	The speed of Selecting and clicking off of a Design Chart that has a fair amount of data is extremely slow.	Code fixed in build 11.5.8.18.6. 11.5.7.17.31
2143232	Design Charts with a large number of options for a Primary Feature, ends up with a very small column width for each option.	Code fixed in build 11.5.8.18.6.
2145545	The UI Server displays unselectable feature options briefly before removing them from the display.	Code fixed in build 11.5.7.17.38
2156968	When you click a button, it is not shown if the request was sent successfully or if you have to click again.	Code fixed in build 11.5.8.18.15.
2176295 2222663	The publishing package was too large to compile on an Oracle 9i database.	Code fixed in build 11.5.6.16.47 11.5.8.18.16
2187410	Developer does not display Japanese characters correctly.	Code fixed in build 11.5.8.18.5.
2200185	When running the Purge Configurator Tables concurrent program, depending on the path and use of optimizer, there is a significant difference in time. Additionally, not all deleted models are completely deleted.	Code fixed in build 11.5.15.1.22
2208060	Batch validation does not invoke the OnSave Functional Companion attached to the model.	Code fixed in build 11.5.8.18.12

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2219053 2231659 2272888	Usages of Configurator Developer are not effective. Multiple usages with the same name and id are inserted into the CZ_MODEL_USAGES table when a model is published to a remote server.	Code fixed in build 11.5.8.18.15 11.5.7.17.33 11.5.8.18.24
2330616	BOM nodes in Functional Companion rules are not being displayed. When trying to add an Auto-Configure type Functional Companion to a referenced Model, the Reference and Companion fields are blank after generating the UI. The drop down control shows all of the Model components, but not the root BOM.	Code fixed in build 11.5.6.16.45 11.5.7.17.10 11.5.8.18.10
2233450	Order import program imports orders with invalid BOMs.	Code fixed in build 11.5.8.18.18.
2236738	Configurator performance issue when BOMs have s large number of items (option classes, standard items).	Code fixed in build 11.5.8.18.20.
2236961 2301420	PTO Options are not appearing in the Configurator Java applet.	Code fixed in build 11.5.7.17.34 11.5.8.18.27
2255582 2338392	Using "Refresh a Single Configuration Model", to refresh an Item, the Item changes (Catalog Descriptive Element i.e. UI Description) are visible in Configurator Developer as Item Property. However, after a "UI Refresh" the changes do not appear on the UI pages where these Items appear. The UI still displays the old property value for UI Description property.	Code fixed in build 11.5.6.16.55 11.5.8.18.33
2256166 2295323	Generating an Active Model resulted in an error when a large rule was involved.	Code fixed in build 11.5.8.18.25 11.5.7.17.34
2259916 2268979	Design Charts are missing their X's and M's on a referenced Model.	Code fixed in build 11.5.7.17.31 11.5.8.18.24.
2260291 2294308	Inconsistent display of the UI label name after refreshing a model.	Code fixed in build 11.5.7.17.34 11.5.8.18.26

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2264167	When generating an Active Model, a warning message is displayed "Unable to create a temporary table for property- based compatibility rule"	Code fixed in build 11.5.8.18.30
2271120	After adding a feature and a component to the root imported BOM and dragging the feature to the child component, unable to drag the feature back to the root.	Code fixed in build 11.5.8.18.24.
2275679	Unable to launch Configurator from iStore or OM when using Netscape v6.2.	Code fixed in build 11.5.7.17.36
2275717 2509422 2297608	After clicking the Done button on an invalid Configuration, the Functional Companion displays a message window that with the same message multiple times.	Code fixed in build 11.5.6.16.55 11.5.7.17.43 11.5.8.18.27
2280171 2301292	A copied model has some of the Explicit Compatibility rule definitions out of place with respect to where they were in the original model.	Code fixed in build 11.5.7.17.34 11.5.8.18.28
2283543	If the Organization ID is lower case, then the importing of a BOM into the CZ schema fails.	Code fixed in build 11.5.7.17.34.
2286181 2280395	Creating an Item type, a Model, and populating a Feature with elements from the new Item type, a DHTML error is returned when the logic is generated.	Code fixed in build 11.5.7.17.34 11.5.8.18.25.
2291695 2271543 2301766	Oracle Configurator Developer is very slow when opening members in Effectivity Sets.	Code fixed in build 11.5.8.18.26 11.5.5.1.21
2305042	When a project is copied from the Oracle Configurator Developer Repository to another name by selecting Model, Copy, Paste from the menu, it copies the Model structure and UI elements, but not all of the rules.	Code fixed in build 11.5.7.17.35.
2310307	Unable to switch between Options in a Feature when rules are involved.	Code fixed in build 11.5.7.17.33.
2320280	When a request is being processed, the hourglass is inconsistently displayed on some panels.	Code fixed in build 11.5.8

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2330898	Clicking on a Numeric rule using common properties resulted in an error.	Code fixed in build 11.5.7.17.36
2323864 2336063	Refreshing models is very slow.	Code fixed in build 11.5.7.17.36 11.5.8.18.33
2331412	A Rule folder disappears when the Rule folder has the same ID as the project folder.	Code fixed in build 11.5.7
2331826 2338379	Fonts and color of the UI do not correspond to the fonts and color of the preview screen.	Code fixed in build 11.5.7.17.36
2336290	When generating an active Model, a warning message is returned stating that the system was unable to create a temporary table for property-based compatibility rule.	Code fixed in build 11.5.8.18.34
2337154	If adding a configurable model into the sales order, then clicking configurator, the configuration opens in a browser (IE, DHTML). The product is then configured and the done button is clicked. All products are added as expected. Similarly, if the customer adds a configurable model into the sales order, and clicks the configurator, the configuration opens in a browser (IE, DHTML). Now at this point if customer closes the browser window by using File close or closes the window using the X in the upper right corner, then they cannot bring up the configurator again by clicking the configurator button.	Code fixed in build 11.5.7.17.37
2338092	Able to enter a value of 0.000034 in a field, but when testing the model, the value shown is 0.00.	Code fixed in build 11.5.7.17.37
2338834 2251523	Unable to print a model report with a Design Chart rule.	Code fixed in build 11.5.7.17.37 11.5.8.18.23
2314470 2314596	The Populate concurrent program runs for a long time before completion.	Code fixed in build 11.5.7.17.41

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
2341542	When 16.xx and 17.xx patches were applied, the synonym field was pointing to CZ_INTL_TEXTS instead of CZ_LOCALIZED_TEXT_VL.	Code fixed in build 11.5.7
2344282	Use of the VAL function in an Advanced Expression due to the fact that the VAL function is not implemented.	Code fixed in build 11.5.8.18.35
2383743 2143115 2232451	Poor performance of Design Chart Rules for large Models.	Code fixed in build 11.5.7 11.5.8.18.6 11.5.7.17.31
2392878 2413556	When copying and pasting a Logic rule from a rule sequence the effective dates are not correctly updated.	Code fixed in build 11.5.8.18.40
2394402 2413546	When an ineffective rule was moved to become the first ineffective rule in a sequence, an error message was returned.	Code fixed in build 11.5.15.1.22 11.5.8.18.40
2396538	When the DHTML page is displayed and the user tries to navigate around the page with the guided questions, they receive an error message in the status line at the bottom of the browser.	Code fixed in build 11.5.7.17.41
2398832	When testing a model with multiple Usages that control Rules and visibility, one usage works correctly but the other two result in Web Initialization Failure error message.	Code fixed in build 11.5.17.39
2400349 2418014 2418045 2418070	Using a custom User Interface with an older version of a dll resulted in a "Logical Overridable Exception" error.	Code fixed in build 11.5.15.1.21 11.5.5.16.64 11.5.7.17.39 11.5.8.18.40
2404467 2413558	Started with a rule sequence with multiple rules and different effectivities for each rule. Changing the effectivities in all rules worked correctly. But when changing the effectivity of one rule, the effectivity of the previous rule should have changed but it did not.	Code fixed in build 11.5.15.1.22 11.5.8.18.40

Table 5–1 (Cont.) Resolved Issues

Number	Issue	Resolution
2406680	When booking a configured order line or reconfiguring an existing configured order line, the calculated publication identification is based on a sysdate rather than based on the order line creation date.	Code fixed in build 11.5.7.17.40
2411176	Apps user ID and user name in Developer were incorrectly identified.	Code fixed in build 11.5.8.18.43
2411903	If the Item tree is not expanded, Find does not work.	Code fixed in build 11.5.8.18.42
2420053	An error message was returned when trying to run the test Java application on configurations that were migrated from Oracle SellingPoint.	Code fixed in build 11.5.7.17.42
2428444	A bill with multiple items was imported into Configurator Developer. The 'By Property Value' sort method was selected in the Option Sorting box. When testing the UI, the items were not sorted and displayed by the property value but were displayed in the same order as they appeared in the Item Master.	Code fixed in build 11.5.7.18.42
2435617	When trying to reconfigure an existing configured model in the Quoting process, an error message is returned.	Code fixed in build 11.5.6.16.49
2437503	When editing design chart rules, there are rules that are missing nodes or the design chart has combined the defining feature with the optional feature and dropped the second node. Additionally, in certain cases the selections in the defining features are changed from "M" to "X".	Code fixed in build 11.5.8.18.43
2440603 2443313	After hitting the Done button on a test page and then relaunching Configurator, the number of connections from the server machine increases, whereas just launching Configurator without clicking the Done button does not increase the number of connections from the server.	Code fixed in build 11.5.7.17.41
2458062	Running the Purge concurrent program does not propagate deletion for the Rule folders that belong to the deleted project.	Code fixed in build 11.5.8

Table 5-1 (Cont.) Resolved Issues

Number	Issue	Resolution
2463594	During a publishing workaround, the use of literals for ITEM_ID in SQL statements results in latch contentions.	Code fixed in 11.5.7.17.42
2465121	Imported Models displayed in the Repository are displayed by Description and do not include the Item Number.	Code fixed in 11.5.7.43
2466774	The 'D' driver from patch 2460469 (ORACLE CONFIGURATOR RUNTIME PATCH) runs for a long time.	Code fixed in 11.5.7.17.42.
2471765	When pressing the previous button twice from last to second to first screen, an error is received "Please inform your support rep that the following program failure has occurred: [net nameN_6900,number=2]:P_2154:Numeric Circular Dependency:result has an effect on the input"	Code fixed in build 11.5.7.17.43
2475218	When attempting to change something on a booked order that includes a configurable item, two standard error messages appear: 1: line is on hold because it is a configured item - click OK 2: book order error - click OK After clicking on the second message, a third error message appears.	Code fixed in build 11.5.7.17.42
2483903	If a screen's mandatory fields are not filled in before navigating to a subsequent screen where information is filled in, a contradiction error message is returned.	Code fixed in build 11.5.7.17.43
2483969	After installing Configurator patchset G on HP/UX 11, a browser error is returned when accessing the "Test" button.	Code fixed in build 11.5.8.18.42
2485760	When selecting an item and then deselcting the item an UnexpectedBehaviorException message is returned.	Code fixed in build 11.5.7.17.43
2504183	Unable to edit properties associated with nodes dragged from Item Master. Creating an item in the Item Master, adding a property with a value to the item and then dragging and dropping the item into a model does not allow editing of the property.	Code fixed in build 11.5.8.18.46

Considerations for Upgrade and Migration

The following items should be taken into consideration when upgrading or migrating to Oracle Configurator, Release 11*i*.

1. **MIGRATION:** As of Patchset G, the migration scripts found on the Developer compact disc are supported only when data is migrated from SellingPoint to Oracle Configurator 11*i*. These scripts are not supported when migrating CZ data from one 11*i* instance to another 11*i* instance. Concurrent programs for migration from one 11*i* instance to another 11*i* instance are available through Configurator patches and are supported. See [Section 4.34, "Migration of Oracle Configurator Data"](#) for details.
2. **AUTOPUBLISH:** When upgrading to a release from a pre-Patchset E release of Oracle Configurator 11*i*, existing imported models are automatically published to Order Management residing in the same instance as Oracle Configurator. If you want to run your configuration models in applications other than Order Management, or you want to publish them to another instance (if your development and production instances are different), you must publish those models in Oracle Configurator Developer.
3. **AUTOPUBLISH:** Keep the following in mind regarding 'auto-publication' of models during the upgrade process:
 - If a model in the database has out-of-date logic, the upgrade deletes that logic, rather than re-generating. The upgrade process does not assume that such a model is complete or correct enough to regenerate. The model is not published.
 - When the upgrade finds a model with up-to-date logic, it regenerates logic and automatically publishes the model.

-
- The publication mode for auto-published models is 'P', production mode. Production mode is also the default value for the "CZ: Publication Lookup Mode" profile option.
4. BOM: The upgrade process creates a separate configuration model for each BOM ATO or PTO model that existed before the upgrade from a pre-Patchset E release of Oracle Configurator 11i. This ensures that the user's runtime configuration models will function as they did before upgrade. The drawback to this approach is that upgrading may result in multiple configuration models representing the same model bill of material.

For example, suppose there are two configuration models representing ATO model B and PTO model A before upgrade. Model A contains model B as a Component. After upgrade there will be three configuration models: model A, model B, and model B(2), which represents B within model A. Model A will contain a reference to model B(2).

An alternate approach would have been to create one configuration model for each unique ATO or PTO model. In the above example, only two configuration models would be present after upgrade, and model A would reference model B. Model A would in most cases behave differently at runtime than before upgrade, since the rules within model B would also be active. It also may not have been possible for upgrade to successfully modify all rules from model A that reference model B.

5. BOM: Patchset H upgrade process changes PTO model types to ATO model types. In order to define an element of a model to have multiple instances, and allow end users to configure each instance differently, there are certain requirements that must be met. Changing all PTO models to ATO models during the upgrade, sets the stage. After the upgrade is complete, the Configurator Developer must run the Refresh a Single Configuration Model concurrent process, or the Configurator Administrator must run the Refresh All Configuration Models concurrent process. See *Oracle Configurator Implementation Guide* and the *Oracle Configurator Developer User's Guide* for more information.
6. USER INTERFACES: To avoid possible problems, all user interfaces should be refreshed before upgrade from a pre-Patchset E release of Oracle Configurator 11i. A user interface that is not synchronized with its model before an upgrade may not function correctly after upgrade.
7. DECIMAL QUANTITIES: When a customer moves from a 15 build forward, and wants to use the decimal quantity feature, they must set the Populate Decimal Quantity Flag profile option and import new BOM Models or refresh

and republish existing ones. See the *Oracle Configurator Implementation Guide* for more information.

8. **IMPORT:** When importing a BOM, if the List of Values does not have any entries, or the user receives an SQL error, then the extraction views must be recreated. Configurator depends on the MTL_SYSTEM_ITEMS_KFV object for extraction views. This object may have become invalid. The extraction views must be recreated. This is done by rerunning the 'Enable Remote Server' concurrent program under the Configurator Administrator responsibility. If the import server is local, then the import server should be disabled and then enabled.

It is recommended that a check for invalid objects be done after running an upgrade.

9. **UPGRADE:** In order to satisfy the requirements of other Oracle Applications, that integrate with Configurator, such as Order Management (OM) and Configure to Order (CTO), a small standalone patch is being released. This patch is a prerequisite for patches that contain Patchset H solution-based model code but cannot depend on the Configurator Patchset H code for being installed. Because some Oracle Applications have just one code line from which all patches are released, some dependencies on Configurator schema and patches are introduced. OM and CTO require a small standalone Configurator patch that allows their code to compile and non Configurator customers are not required to take the full Configurator patch.

If a Configurator client does not take the OM patch, there is no prerequisite patch that must be taken. OM uses the standalone patch as a hard prerequisite and uses 17.30 patch as a soft prerequisite.

Refer to [Table 6-1, "Required action for OM and CTO patch"](#).

Table 6-1 Required action for OM and CTO patch

Configurator Customers Current Build	Action
14 or 15 build	Move to build 17.30 or higher 17 build
16 build	Move to build 16.49 or higher 16 build or Move to build 17.30 or higher 17 build
17 build	Move to build 17.30 or higher 17 build

Known Limitations With Installation

7.1 Known Limitations with Oracle Configurator Installation

1. Oracle Client 8.0.6 is the only client certified and supported for this release.
2. You must install Microsoft Word 97 in order to generate Model Reports in Oracle Configurator Developer.
3. CONTROLS: Setting machine display fonts to "Large Fonts" causes display problems. Some controls and labels become overlapped.
4. CONTROLS: Setting machine display colors in your Control Panel Display properties to 256 or less can cause some distortion or some graphics to flash and repaint.
5. CLASSPATH: Due to a Windows NT limitation, the length of your ClassPath should be less than 500. If it is greater than 500, the Oracle Configurator Developer installation displays the warning message:

The install has detected that the environment variable CLASSPATH on this system is dangerously long. Long CLASSPATH entries have been known to cause Windows to hang upon boot-up. When this install completes, please remove any unnecessary or duplicate entries and add the contents of >
%MAINDIR%\classpath.txt to your system CLASSPATH.

where %MAINDIR% is the path specified for the installation.

The Oracle Configurator Developer installation does not change your ClassPath. It writes the ClassPath information to a `classpath.txt` file in the `install/OC` directory with the entries you should add to run Oracle Configurator

Developer. In this case, your system crashes and must be rebooted to the last saved configuration. To clean up your ClassPath:

- a. Remove duplicate entries.
 - b. Define a new environment variable.
 - c. Replace duplicate prefixes with `%new_env_variable%`.
 - d. Ensure that adding the information in the `classpath.txt` file will not make your ClassPath too long.
 - e. Add the information in the `classpath.txt` file.
6. CLASSPATH: On Windows NT machines, be sure that the ClassPath is defined as a System Variable. On NT machines the Oracle Configurator Developer installer creates a ClassPath entry in the System Variables area of the registry. If ClassPath is defined with a different value in the User Variables area of the registry, it will override the System Variables definition. This results in the Configurator Developer-defined ClassPath not being loaded.

If the User Variables CLASSPATH conflicts with the Configurator Developer-installed System Variables CLASSPATH, attempting to open a new configuration causes a "Run-time error: Automation Error".

7. CLASSPATH: When uninstalling previous versions of Oracle Configurator Developer from Windows 95 systems, the Uninstaller does not remove old ClassPath settings from `autoexec.bat`. If installing to a directory different than the previous version, remove the old ClassPath settings from `autoexec.bat` before installing the new version.
8. SPX.INI: In order to indicate which version of JInitiator you are using, you must specify the version in the `jinitVersion` parameter in the `spx.ini` file. If you are using Microsoft Internet Explorer for testing with Oracle Configurator Developer, you must also specify the class ID of JInitiator, using the `jinitClassID` parameter. See [Section 4.16, "Data Source-Specific Test Sessions"](#) on page 4-5 for more details.
9. On a Windows 95/98 machine, if DCOM98 is not installed, or installed after MDAC, trying to start Oracle Configurator Developer will produce `Runtime Error 429 ActiveX Unable to Create Object`.
10. If you can't generate a UI in Oracle Configurator Developer or if you get an error saying that `fm20.dll` is missing while opening a configuration, install Microsoft Word 97.

11. Configurator OC Servlet property `cz.activemodel` in the `jserv.properties` file, turns on pricing and ATP (Available to Promise) information in the Configurator window. For example:

```
wrapper.bin.parameters=-Dcz.activemodel=/lp|/dp|/atp
```

However, if you are using iAS 1.0.2.2.2, setting this value in `jserv.properties` prevents JVM (Java Virtual Machine) from starting. The suggested workaround is to add the following line to `zone.properties`:

```
servlets.default.initArgs=cz.activemodel=/lp|/dp|/atp
```

7.2 Installation Limitations for Internal Oracle Users Running on Windows NT OBI Machines

1. Internal users may encounter problems viewing newly created UIs in Oracle Configurator Developer if running on Windows NT OBI machines. This problem is caused by the fact that NT OBI only partially installs the font. It has the registry entry for the Arial Black font but does not have the font file in the right place. Install the Arial Black font from Control Panel > Fonts. The font file is in `C:\Winnt\system`.

If NT does not let you install the font, then you have to go to the registry `HKEY_LOCAL_MACHINE/Software/microsoft/winnt/currentversion/fonts` and delete the registry entry key for the font and then install the font again.

2. Internal Oracle users may encounter problems opening the HTML help files from inside Oracle Configurator Developer if running on Windows NT OBI machines on which Internet Explorer has never been installed.

This is a path problem. When OBI software is installed on NT machines, the HTM and HTML file extensions are associated with the Netscape browser, whose default path is: `C:\Program Files\Netscape\Communicator\Program\netscape.exe`. However, this path contains an embedded space character, which can prevent some programs from reading the complete path. This path is not stored with either enclosing double quotation marks or 8.3 names (such as `PROGRA~1` for Program Files), which can enable all programs to read the path.

Here is a workaround: open any Windows Explorer window and choose View > Folder Options. Select the File Types tab, and search for the Internet Document file type (associated with HTM or HTML files). Click Edit, select Open in the Actions list box, and click Edit. In the Editing Action dialog, click Browse, then browse to your `netscape.exe` file, using the path mentioned

above. Select `netscape.exe`, click Open, then click OK to exit the Edit File Type dialog, then click OK to exit the Folder Options dialog. Now you should be able to open the help files from inside Oracle Configurator Developer.

Known Limitations in Configurator Developer

The following are known limitations in Oracle Configurator Developer:

1. **PERFORMANCE:** Running Oracle Configurator Developer over a wide area network (WAN) may cause performance degradation. If performance is not sufficient, consider increasing network bandwidth and making sure you have a FAT connection between your client machine and the database.
2. **USER INTERFACE:** The Arial Black font must be installed to generate a UI.
3. **ADVANCED EXPRESSIONS:** The Advanced Expressions editor does not parse properly if you delete using the right mouse button click. Delete using Edit => Delete.
4. **BOM IMPORT:** Only one BOM model can be imported into any one Repository. Submodels are imported as individual models into the Repository and are references to the parent BOM model.
5. **CUSTOMIZE UI:** You cannot remove a screen (Component) from the UI using Delete. Toggle the Visibility checkboxes in the Model before generating the UI.
6. **CUSTOMIZE UI:** Adding a button with the action "Go to Screen", which references a user-added screen, does not work.
7. **CUSTOMIZE UI:** When creating a UI where a button launches a BOM Functional Companion, the Functional Companion must be associated with the parent Product or Component.
8. **EFFECTIVITY:** The effectivity on the root node of a configuration model should remain "Always". You cannot edit the effectivity on the root node of a Model.
9. **IMPORT:** Oracle Configurator supports import from only *one* Oracle Applications database. This is because the information used to refresh imported

Oracle Applications BOM models can overlap between multiple Applications databases. If a different database server is enabled for Import after data has been imported into the CZ schema, the Synchronize All Models concurrent program must be run. Models can become corrupt when they are refreshed or reimported from a different import server if the synchronization does not run successfully. See the *Oracle Configurator Implementation Guide* for details.

10. REFRESH: When refreshing a model, and BOM items have been deleted in Oracle Applications, then the refresh concurrent process will delete those items from the CZ schema. Refresh respects the deletion. But if a catalog item that exists in the CZ schema is deleted in Oracle Applications, it does not get deleted on refresh.
11. MODEL REPORT: Disabled rules are not marked as disabled in the Model Report.
12. MODEL REPORT: Be sure MS Word is not already opened when you generate a Model Report.
13. MODEL: When you delete Model nodes, the rule references to those nodes are not automatically deleted.
14. MODEL: The BOM Output type property on model structure nodes is no longer supported. This property had enabled you to select including node with children, skipping node and children, including node without children, and replacing node with children.
15. MODEL: The initial value for a Text feature cannot contain quotation marks (" ").
16. MODEL: Intermittently, the nodes in the model structure disappear from view after selecting a specific Logic rule. Exit and log back into Oracle Configurator Developer. The nodes display.
17. MODEL: The tree structure may not refresh to show the re-ordering of nodes when dragged and dropped into the same parent. Exit and log back into Oracle Configurator Developer. The node displays in the new order. UI generates correctly in this circumstance.

To avoid having to exit and log back into Oracle Configurator Developer to refresh the re-ordered model structure, have a blank Model on hand, open that blank Model whenever you have re-ordered nodes in your working Model, then re-open the working Model with the structure refreshed.

18. MODEL: After making a change in the model representation you must Generate Active Model again before accessing the runtime application

otherwise the model is not in sync with the user interface and you may receive errors.

19. **MODEL:** Do not create multiple references to BOM Models within the same configuration model. Although you can create this structure in Configurator Developer, the configured Model will not be orderable from Oracle Order Management.
20. **PUBLISHING:** You should never rename a Usage used for a publication that has a status of either "Complete" or "Update Pending". This causes the publication source instance to have a different Usage name than the publication target instance.
21. **RULES:** When you create two Design Chart rules assigning each of them multiple required or optional Features, delete the first Design Chart, and then Save Model As... . The remaining Design Chart rule contains all the Features assigned to it as well as the features assigned to the deleted Design Chart rule.
22. **USER INTERFACE:** Creating a "BOM Style UI" for a model with non-BOM components should have "Component Tree" style UIs. If you do create a "BOM Style UI", then you may get the following error message at runtime:

```
WebUI Initialization Failure  
User interface is not compatible with the client type.
```
23. **USER INTERFACE:** The user sees a null pointer exception error message when launching DHTML and someone using Developer has deleted the default string for the Resource violation message.
24. **POPULATORS:** Using Populators to add more than 32,000 items to the Item Master causes overflow errors in Configurator Developer.
25. **BOM IMPORT:** Importing a BOM from a remote instance may fail ("ORA-03113: end-of-file on communication channel") if the RUN_BILL_EXPLODER flag is set to YES in the local database. Setting the RUN_BILL_EXPLODER flag to No permits a successful import.

See [Chapter 6, "Considerations for Upgrade and Migration"](#) item 8. on page 6-3.

Known Limitations with the Runtime Oracle Configurator

The following are known limitations with runtime Oracle Configurator:

1. If you are running your runtime Oracle Configurator in a DHTML window and you select a large Model in the runtime Oracle Configurator user interface, you may receive the following error message from Netscape:

'The document contained no data. Try again later, or contact the server's administrator.'

The runtime Oracle Configurator UI does not display. Click OK in the Netscape error message dialog. Click Reload on the Netscape Navigation Toolbar. The UI will then display.

To avoid this in the future, be sure you set the `cz.uservlet.pre_load_filename` and the `httpd.conf timeout` properties as instructed in the *Oracle Configurator Installation Guide*. Additionally, the `czuiserver.check_heartbeat_timeout` should be set to a value higher than the time required to initially load the model.

For additional details on the use of some of these properties with the DHTML runtime Oracle Configurator, see the *Oracle Configurator Custom Web Deployment Guide*.

2. When resizing the Netscape browser window, the browser loses the layer's layout attributes if the window is resized more than once within a time span of less than one second.

To avoid this, the end user should wait until all of the information is painted on the screen after the first resize.

3. When launching a configuration session using the Test button, if the browser is Internet Explorer (IE) version 5.5 or later and there is no other instance of IE

running, the configuration session ends unexpectedly when a selection causes a contradiction. When this occurs, the following message appears: "Invalid call to this session. Your session may have timed out or the server may be overloaded."

To begin the configuration session again you must:

- double click the file dhtmlhtm.htm located in the Temp directory defined for the client machine, or
- close and reopen the browser window, then click the Test button.

This is a known problem in IE versions 5.5 and later. For more information, go to:

<http://support.microsoft.com/support/kb/articles/Q300/8/95>. ASP

4. When configuring components in an instantiable Solution-based model, the instance numbering may get out of sequence. This can occur due to exception handling with multiple instantiations of a component.
5. If the Netscape browser has a page with a bad URL link and a text feature with certain characters such as <, >, &, when the user returns from the bad URL link by clicking the browser's BACK button, the applet value of the text feature is executed. There are two work arounds:
 - Avoid using hyperlinks to web pages in option descriptions
 - Use `target="_new"` as a new attribute in the anchor tag for the hyperlink. For example: `site`
6. Oracle Order Management launches Oracle Configurator using a calling application ID in the initialization message that is based on the Responsibility selected by the user. Accessing the Sales Order form as "Order Management Super User" causes configuration models that were published with the ONT Publication Applicability Parameter to be available. However, when accessing the Sales Order form as "Manufacturing and Distribution Manager", these same published models are not available, even though the host application is Order Management.

To make the same models available to "Manufacturing and Distribution Manager" user responsibility, these models must be published to the Manufacturing application.

7. Price display in the DHTML UI may overlap with parts of the item description when you have a long description. In order to prevent this from happening, you must increase the width of the BOM controls so that the description is not shortened.

Known Limitations Using Functional Companions and the CIO

The following are known limitations using CIO and Functional Companions:

1. CIO: Use of the method `oracle.apps.cz.cio.Total.setDecimalValue()` is permitted, but deprecated. This method provides the ability to set the value of Totals programmatically (rather than in the runtime application as the result of user actions). It may be removed in future releases.
2. Although `StateNode`'s `isDefaultState()` and `isUserState()` methods are documented in the *Oracle Configuration Interface Object (CIO) Developer's Guide*, they have not yet been implemented in this release. Using `isDefaultState()` results in an error indicating the method is not implemented. Using `isUserState()` returns true for defaulted items as well as user items.
3. Do not open nested transactions (with `Configuration.beginConfigTransaction()`) when there are uncommitted actions in the parent transaction. This may produce erroneous results for `Configuration.getUnsatisfiedItems()`.

Known Limitations with Oracle Configurator Documentation

The following are known limitations with Oracle Configurator documentation:

1. The *Oracle Configuration Interface Object (CIO) Developer's Guide*, *Oracle Configurator Custom Web Deployment Guide*, and *Oracle Configurator Installation Guide* do not correctly describe certain files required for Oracle Configurator.

The following files are obsolete, and are no longer installed:

```
config.jar
confw32.jar
cz3rdpty.jar
libcz.so
libczjni.so
```

The Java classes formerly provided in `config.jar`, `confw32.jar`, and `cz3rdpty.jar` are now provided in `apps.zip` and `xmlparserv2.zip`.

The shared libraries formerly provided as `libcz.so` and `libczjni.so` are now provided as `libczlce.so`.

Other files described in the documents cited above are still required.

In order to compile Functional Companions or "return_url" servlets, you must have access to the classes in `apps.zip`. To get this access, you can:

- Copy `apps.zip` to your development machine.
- Map the location of `apps.zip` to a drive on your development machine. This requires NFS mounting.
- Perform your compilation on the server machine on which `apps.zip` is installed.

All of these methods require you to modify the Java class path on your development machine to include `apps.zip`. You must use the same `apps.zip` that is used by the Oracle Configurator Servlet. You can determine the location of `apps.zip` by examining the Apache configuration file `jserv.properties` for the setting of the OC Servlet's class path. For example:

```
wrapper.classpath=/d01/oracle/viscomm/java/apps.zip
```

2. The *Oracle Configuration Interface Object (CIO) Developer's Guide* should clarify a point about interacting with user interfaces. Although a number of interfaces related to `IUserInterface` are documented, Functional Companions should only implement the interfaces `IUserInterfaceEventListener` and `IUserInterfaceNode`. The members of the other related interfaces may be called, but not implemented.
3. The *Oracle Configuration Interface Object (CIO) Developer's Guide* does not describe the use of the methods `setInstanceName()`, `getInstanceName()`, and `hasInstanceName()` in the interface `Component`.

You can use `setInstanceName()` to set the name of a runtime instance of a `Component`. The `Component` to be renamed must not be a mandatory `Component`. (Mandatory `Components` have an `Instances Minimum` of 1 and a `Maximum` of 1.) The name that you set will persist when you restore the configuration that contains the instance. In previous releases of Oracle Configurator, the name of a restored instance was always reset to the default (the name of the `Model` node plus an instance number).

You can use `hasInstanceName()`, and `getInstanceName()` to test whether the name of an instance has been set, and to return the name.

4. The *Oracle Configurator Installation Guide* does not explain how to add the `AltBatchValidateURL` setting into the `CZ_DB_SETTINGS` table. `AltBatchValidateURL` allows the batch validation process to bypass the URL that would normally be used for batch validation. This setting is needed if Oracle Configurator uses SSL. If `AltBatchValidateURL` does not exist in the `CZ_DB_SETTINGS` table, then Oracle Configurator uses the profile option `BOM:Configurator URL of UI Manager` and the batch validate fails when trying to use the secure URL.

Example 11–1 Adding a row into the `CZ_DB_SETTINGS` table using `SQL*Plus`

```
INSERT INTO cz_db_settings (setting_id, section_name, data_type, value, desc_
```

```
text) VALUES ('AltBatchValidateURL','ORAAPPS_INTEGRATE',4,
'http://servername.com:8808/configurator/oracle.apps.cz.servlet.UiServlet',
'Non-secure URL for Batch Validate in SSL mode')
```

5. In the *Oracle Configurator Installation Guide*, section 2.2, Load Balancing, contains erroneous information about specifying the maximum heap size and does not provide information about specifying the minimum heap size. In JDK versions later than 1.1.8, use the following syntax to specify a maximum JVM heap size of 1000 MB:

```
wrapper.bin.parameters=-Xmx1000M
```

Additionally, use the following syntax to specify a minimum heap size of 256 MB in these versions of JDK:

```
wrapper.bin.parameters=-Xms256M
```

These options are non-standard, subject to change, and vary from platform to platform. Oracle recommends a small initial heap and a maximum heap that is smaller than the platform maximum. This is necessary to minimize the chances of running out of memory for the C heap.

6. The *Oracle Configurator Installation Guide*, *Oracle Configurator Implementation Guide*, and *Oracle Configurator Custom Web Deployment Guide* describe HTML files located in OA_HTML/US that are used by the OC Servlet to render screens in a DHTML User Interface. If you are installing Oracle Configurator Developer for the first time, these files will *not* exist in the OA_HTML/US directory, and the OC Servlet instead uses the Java Server Pages (JSP) located in the OA_HTML directory to display DHTML UI screens. These files are listed in [Table 11-1](#).

If you are upgrading an existing Oracle Configurator Developer installation, the HTML files will still exist in OA_HTML/US and you can continue to use them. Alternatively, you can use the JSP files located in OA_HTML to display the DHTML UI screens. To use the JSP files, comment out the following OC Servlet properties:

```
wrapper.bin.parameters=-Dcz.uiservlet.blaftemplateurl
wrapper.bin.parameters=-Dcz.uiservlet.formtemplateurl
wrapper.bin.parameters=-Dcz.html.source.formtreeview
wrapper.bin.parameters=-Dcz.uiservlet.sourcefile
wrapper.bin.parameters=-Dcz.html.source.treeview
wrapper.bin.parameters=-Dcz.html.source.display
```

For more information about these properties, see the *Oracle Configurator Installation Guide*.

Note: Each JSP file listed in [Table 11–1](#) serves the same function as its corresponding HTM file. Refer to the *Oracle Configurator Installation Guide* for a description of each HTM file.

Table 11–1 JSP and Corresponding HTML Files

Java Server Pages (JSP)	HTML Files
OA_HTML/czblank.jsp	OA_HTML/czblank.htm
OA_HTML/czCntnt.jsp	OA_HTML/czCntnt.htm
OA_HTML/czdisp.jsp	OA_HTML/czdisp.htm
OA_HTML/czFormTree.jsp	OA_HTML/czFormTree.htm
OA_HTML/czHeartBeat.jsp	OA_HTML/xzHeartBeat.htm
OA_HTML/czseparator.jsp	OA_HTML/czseparator.htm
OA_HTML/czSource.jsp	OA_HTML/czSource.htm
OA_HTML/czSummary.jsp	OA_HTML/czSummary.htm
OA_HTML/cztree.jsp	OA_HTML/cztree.htm
OA_HTML/czBlafTemplate.jsp	OA_HTML/US/czBlafTemplate.htm
OA_HTML/czFormTemplate.jsp	OA_HTML/US/czFormTemplate.htm
OA_HTML/czFraTemplate.jsp	OA_HTML/US/czFraTemplate.htm
OA_HTML/czIFrame.jsp	OA_HTML/US/czIFrame.htm
OA_HTML/czLeft.jsp	OA_HTML/US/czLeft.htm
OA_HTML/czRight.jsp	OA_HTML/US/czRight.htm

7. The *Oracle Configurator Implementation Guide* does not give a complete explanation on how to use the OracleSequenceIncr setting in the CZ_DB_SETTINGS Schema. Both Runtime Oracle Configurator and Configurator Developer ask for a sequence value once, and then manage the sequence value minus 1 in memory. When the block is used up, Runtime and Developer again call for a sequence value. Keeping a default value at 20 saves round trips to the

database. Changing the default OracleSequenceIncr setting of 20 is likely to have adverse effects.

8. The *Oracle Configurator Implementation Guide* does not reflect that in Patchset G and later, the APPLID and RESPID settings in the spx.ini file must be specified. The BATCH_VALIDATE_USER and BATCH_VALIDATE_PWD have been removed from the DBC file. Removing the user and password from the DBC file results in the inability to launch Configurator from the Test button.
9. The *Oracle Configurator Developer User's Guide* does not reflect the updated evaluation of Compatibility Rules and the propagation of False along the row of an option. For information regarding the evaluation and propagation of False, see [Section 3.3, "Patchset G Changes"](#), [Compatibility Rules](#) on page 3-8.
10. The *Oracle Configurator Developer User's Guide*, section 6.1.3, "Pricing and ATP Display" does not mention that pricing information may overlap an item's description in the DHTML runtime User Interface if the item's description is very long. Users should consider this possibility when designing a Model's UI.
11. The *Oracle Configurator Developer User's Guide*, section 6.3.4.5 "Adding a Connections Listbox to a Screen" does not include a significant detail about the **Display Path in Connections List** check box. You select this box on a Connector's UI node in Configurator Developer to show any connected components' path information in the Connections Listbox at runtime. However, the documentation fails to mention that the path does not include the root node of the configuration model. Therefore, if the connected component is a direct child of the root node (a first level node), only the connected component's node name appears in the Connections Listbox; in this case, there is no "path".
12. The *Oracle Configurator Installation Guide* contains erroneous information about the steps required to set up Oracle Configurator after running Rapid Install. If you install Oracle Configurator with Oracle Applications by running Rapid Install, several set up steps are not required. The following tasks listed in section 1.4, "Completing the Oracle Configurator Installation" are set up automatically when you run Rapid Install. You need only verify that the settings are correct (where noted below) before the Oracle Configurator installation is complete:
 - Step 2: "Modify the database configuration file parameters for the database instance." - This step is not required and should not be performed. However, you should verify that the following parameters do *not* exist in the database configuration file DatabaseHostname_DatabaseSID.dbc:

```
BATCH_VALIDATE_USER=valid Oracle Applications username (for example, jsmith)
```

`BATCH_VALIDATE_PWD=password` for the above username

If these parameters do exist in this file, please remove them.

- **Step 3: "Set profile options that enable you to run the runtime Oracle Configurator within Oracle Applications."** Rapid Install defines the profile options `ASO:Configurator URL` and `BOM:Configurator URL` of UI Manager automatically. However, you should verify that the other profile options listed in section 1.4.2, "Set Profile Options" are set correctly for your installation.
- **Step 4: "Configure the servlet on your Internet server."** - This step is not required, but it is recommended that you verify that Rapid Install has set up the server correctly. To do this, enter a command with the following structure in the Location field of your browser:

`URL of the Servlet?test=version`

For example:

`http://www.mysite.com:60/configurator/oracle.apps.cz.servlet.UiServlet?test=version`

The result should be the build and schema version of Oracle Configurator running on the server.