

# ORACLE JHEADSTART 10g

## DEVELOPING J2EE APPLICATIONS HAS NEVER BEEN SO EASY

### KEY BENEFITS

#### FOR J2EE ENVIRONMENTS

- Unprecedented J2EE developer productivity
- Only limited knowledge required to get started
- Consistent application because of generation approach
- Does not generate Java, simplifying maintenance
- Seamlessly integrated with ADF, allowing you to use ADF design time features for very complex pages
- ADF Faces allows you to easily set up your own look and feel
- Completely standards based, fully compliant with Java Server Faces, fits in a Service Oriented Architecture (SOA)
- Runs on every J2EE-certified application server

#### EXTRA BENEFITS FOR DESIGNER/FORMS ENVIRONMENTS

- Makes the step to J2EE easier
- Workflow is very similar to Oracle Forms and Oracle Designer
- Protects current investment because of reuse of metadata in Oracle Designer Repository
- Helps you migrate Forms to J2EE

#### RELATED SERVICES

The following services are available from Oracle Expert Services:

- J2EE Pilot
- Forms to J2EE Quick Scan
- Forms to J2EE Migration
- ADF-JHeadstart Workshop

*Are you concerned about developer productivity and the quality of your applications when moving to J2EE? Do you lack J2EE expertise in your organization? If so, you'll need to either hire J2EE gurus or depend on powerful and flexible J2EE frameworks.*

*The fully standard based Oracle Application Development Framework (ADF) in Oracle JDeveloper is a first-class J2EE framework that hides J2EE complexity and includes an easy to use drag-and-drop development environment. With ADF all your developers, not just Java gurus, can rapidly automate your business processes through applications that are easy to maintain in fit perfectly in a service oriented architecture (SOA)*

*Thanks to our experience with customers, Oracle Consulting has collected and embedded Oracle ADF best practices into powerful generators bundled with Oracle JHeadstart that allow you to increase developer productivity. Oracle JHeadstart enables J2EE developers to create applications in minutes. Only limited knowledge of Oracle ADF is necessary to get started.*

### The Oracle Application Development Framework

In addition to being a first-class IDE, Oracle JDeveloper includes the Oracle Application Development Framework (ADF). Oracle ADF simplifies J2EE development by minimizing the need to write code that implements design patterns and applications infrastructure. Key characteristics include:

- **Integrated Development Environment** includes visual aids and a declarative approach.
- **Platform independence** ensures that applications based on ADF run on every J2EE certified application server.
- **Model-View-Controller Architecture** simplifies maintaining and reusing components across applications.
- **Technology choice** allows developers to choose from multiple options for each layer in the model-view-controller architecture.
- **An end-to-end solution**, Oracle ADF provides a complete solution for every J2EE layer and every phase in the development life cycle.

These characteristics make Oracle ADF a productive, powerful and flexible framework, indispensable for every J2EE developer who wants to focus on functional requirements instead of low-level plumbing.

## Oracle JHeadstart

Oracle JDeveloper and ADF provide you with a way to build your application page by page declaratively. Oracle JHeadstart adds a new approach by specifying metadata and generating a complete application at once.

Oracle JHeadstart automatically creates initial metadata. Based on data collections defined in your model layer, your first application can be running in a matter of minutes.

By refining your metadata via a simple property editor, you can create sophisticated applications that include, for example, a list of values, different types of search pages, trees, shuttles, and multi-select functionality.

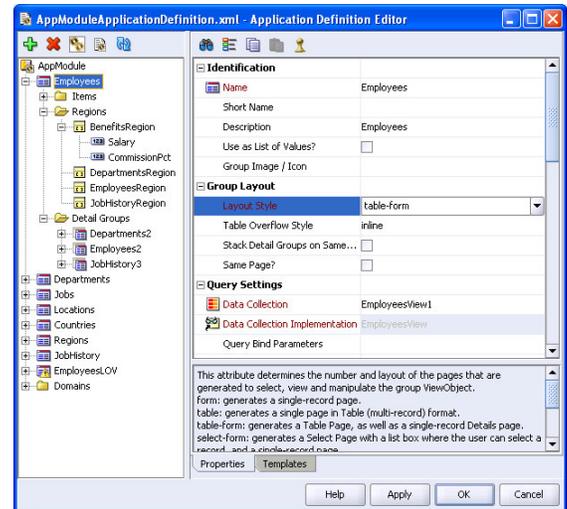


Figure 1 – Oracle JHeadstart Property Editor

(A complete list is at the end of this data sheet.) The only thing you have to do is to click the generation button!

## Why Oracle JHeadstart?

Oracle JHeadstart boosts J2EE developer productivity and simplifies development so that everybody on your development team needn't be a J2EE guru. *All* developers will be productive and can create complex pages from the first day! Whereas typical J2EE developers take days or weeks to get things done, with Oracle JHeadstart, they can be done in minutes or hours.

Oracle JHeadstart does not generate Java! Rather, it configures and wires reusable components together. This approach dramatically simplifies customization and maintenance of the generated application. Because the application is generated you will receive a consistent look and feel across your complete application--from the outside as well as the inside.

Oracle JHeadstart templates allow you to drive the application generation process in such a way that the generated pages include components where you want them to be. In addition you can change colors, styles, buttons, and so on to completely fit your organization's look and feel.

Oracle JHeadstart is fully based on Oracle ADF; for very complex pages you can seamlessly use the powerful Oracle ADF Design facilities to refine your generated page.

Your generated application is standards based, fully compliant with Java Server Faces and can run on every J2EE certified application server. The generation process allows you to grow with new and evolving standards such as AJAX. Updated generators will take your metadata and make your application compliant with these new standards.

For Oracle Designer and Oracle Forms customers, Oracle JHeadstart offers extra benefits. The workflow in Oracle JHeadstart and Oracle ADF is similar to that of Oracle Designer Forms Generator and Forms Builder respectively. As a result, making the transition to J2EE is much easier for your development staff--even more so because you can use your existing metadata in

the Oracle Designer Repository to generate J2EE applications. With this capability you can create back office applications using Oracle Forms and self-service or internet applications using HTML/J2EE based on the same metadata in the Oracle Designer repository. (For RuleFrame users, your business rules will be validated in both applications.) In addition, Oracle JHeadstart helps you migrate your Oracle Forms applications to J2EE.

### What Can Oracle JHeadstart Generate?

Oracle JHeadstart can generate a broad array of distinct pages:

#### Lay-out styles:

Form, Select-Form, Table, Table-Form, Tree, Tree-Form, Parent and Intersection-Shuttle (both multi select), Master-Detail page with detail in same or separate page (with unlimited nesting of parent-child relations) and Regions (aligned horizontally, vertically, inline or stacked). All Forms pages come with previous, next, and first and last buttons. You can specify the number of columns on a form page.

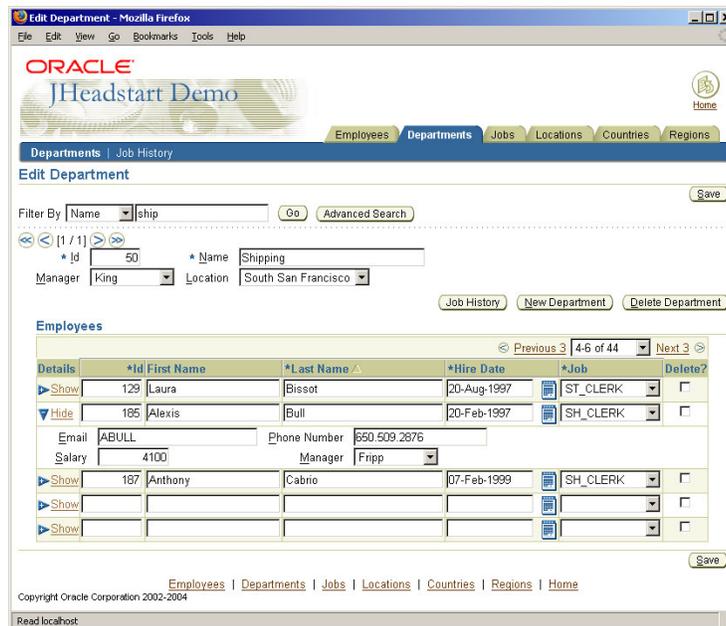


Figure 2 – Master Detail Screen built with Oracle JHeadstart with inline overflow

#### Table layout extras

Sortable column headers; nested tables; table overflow styles inline, right or below;

#### Query

Quick Search, which pops-up a list with all the fields you can search on; Advanced Search; Auto Query; and Query operators like 'is', 'is not', 'less than', and 'greater than'. The search results can be displayed in the same or a different page.

#### Transactional Behavior

For every page you can specify if a single or multiple insert, update and/or delete is allowed. Oracle JHeadstart generates table pages that allow you to do multiple inserts, updates, and deletes at the same time, which allows for easy recording of data. When you allow multiple inserts in tables you can specify the number of new rows.

## User Interface Widgets

You can set prompts, default display value (including using expression language to define your default), and display types like text, checkbox, choice (based on a particular domain), list, editor, date, date time, display only, secret, file upload (results in a field with a browse button to search the file to be uploaded), file download, and images.

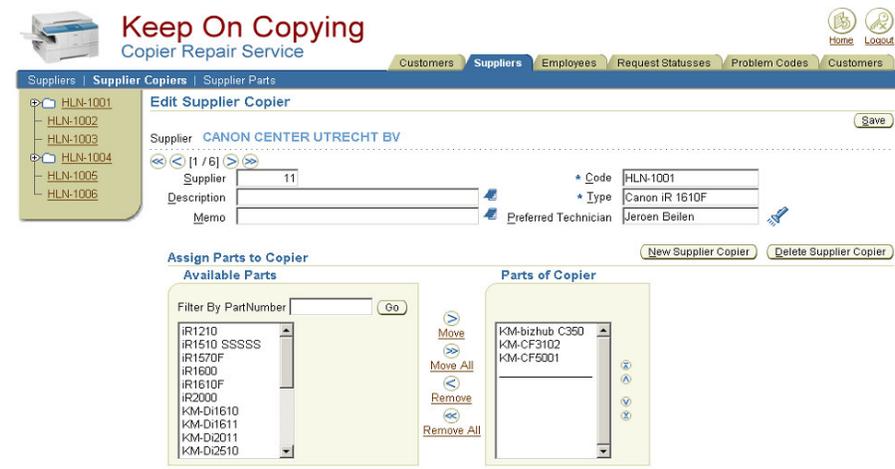


Figure 3 – An example of a tree-form layout page with an intersection shuttle

## Reusable Lookups

Can be displayed either as a list of values (separate window) or a choice (poplist). The list of values can be used for validation, so the user can enter part of the value and if there is only one it will be auto completed; if there are more values, the list of values will be shown. With the multi-select list of values the end user can choose multiple values at once. Using query bind parameters you can make the list of values dynamic, and, for instance, base a list of values on a value that has been chosen in a previous list of values on the same page.

## Customizing the Oracle JHeadstart generator templates

The generated pages are 100% template driven. Oracle JHeadstart uses the open source Velocity Template Language in the generator templates, which makes it easy to write your own custom templates. You have complete control over the content of the generated pages, each page component has its own template that can be customized.

## Internationalization

Oracle JHeadstart comes packaged with support for a large number of languages. It also supports the development of multi-language applications.

## More Information

To help you get acquainted with Oracle's J2EE environment Oracle Expert Services offers the [J2EE Pilot](#). Using your own business case, the J2EE pilot provides you with a comprehensive introduction to J2EE technology.

For more information about Oracle JHeadstart and related services, please refer to the [Oracle JHeadstart Product Center on OTN](#), contact your Oracle Consulting representative, or send an email to [idevcoe\\_nl@oracle.com](mailto:idevcoe_nl@oracle.com).