Peregrine

OAA Platform 2.2 Release Notes

For Windows, Solaris, and Linux

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Peregrine SYSTEMS

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If you have comments or suggestions about this documentation, please send e-mail to support-sd@peregrine.com

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Peregrine OAA Platform Release Notes

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Release Notes

Welcome to Peregrine Open Application Architecture (Peregrine OAA) Platform version 2.2.

This release includes enhancements and new features added since the release of Peregrine OAA Platform version 2.1.

Compatibility matrices for the various configurations begin on page 9.

The media shipped with this release comprise a complete installation of the product. Refer to the packing list included with your shipment for a description of the media.

What's in these Release Notes

These release notes include:

- What's New in Peregrine OAA Platform 2.2—a summary of the Peregrine OAA Platform 2.2 enhancements (page 4).
- Related Documentation—notes on accessing related documentation (page 9).
- Compatibility Matrices—details of platform compatibilities (page 9).

- Known Issues—the list of known issues for the Peregrine OAA Platform 2.2 release (page 11).
- Need Further Assistance?—details for contacting Peregrine Customer Support (page 14).

What's New in Peregrine OAA Platform 2.2

Peregrine OAA Platform is the base platform for Peregrine Web applications. The following features have been enhanced or are new in Peregrine OAA Platform 2.2.

Flexibility

New Modular Deployment

Web applications can now be developed and deployed independently as prebuilt packages. This has several benefits, including:

- Simplifying the deployment process by eliminating the need to rebuild the portal each time a new application is added to a server.
- Allowing deployment of prebuilt applications to avoid the need to compile at the target site.
- Streamlining the Peregrine Studio development process by allowing independent development of individual applications, rather than working with monolithic projects.

New ARS Adapter

The new ARS adapter simplifies integration with existing applications built upon the Action Request System.

Enhanced Mail Adapter

The updated Mail adapter now supports IMAP4, in addition to POP3 and SMTP.

New Persistence

OAA Persistence is a general purpose "back end" for the Peregrine OAA Platform. The main features include message-based transaction-controlled persistence of Peregrine OAA Platform schema entities and a framework for writing business logic in Java on the server side. OAA Persistence is tightly coupled with Peregrine OAA Platform, processing messages created by either a DocExplorer or JavaScript. OAA Persistence can either be run as part of the Peregrine OAA Platform servlet or as a Session EJB.

New Notification Services

The Notification Services module allows applications to initiate notification events via e-mail, phone, fax, and mobile devices.

New Workflow

The OAA Workflow module provides an applet-based user interface for designing and maintaining workflow processes. A robust engine powers user task and approval notifications, automated actions, complex routing and drives the user interface for more user productivity.

New Triggers

This release of the Peregrine OAA Platform supports Triggers, which can be associated with Insert, Update, and Delete operations to execute JavaScript or launch a Workflow.

Enhanced DocExplorer

- **Document Instance Cache**

Changes to a document are now maintained in a session-specific "current document" cache to reduce the amount of interaction with the back-end repository.

- **Collections**

Collections are now fully editable. Using a new feature called Polymorphic Collections, DocExplorer applications now support the management and display of document collections that may represent instances of different derived types.

- **Enhanced Navigation User Interface Features**

Lookups are now supported at all levels, including search pages, detail pages, collections, sub-document detail, and so on. Support for nested documents within search result pages is also provided.

- **Enhancements to DocManager**

Operations on sub-documents and collections are optimized to reduce the number of back-end operations.

- **Custom Field Support**

Any part of a schema can be rendered using custom-defined JSP components.

- **Access Control**

Document access rights (create, query, update) can be controlled according to each user's credentials.

- **Schema-Driven Access**

Schema attributes define field-level access rules. For instance, schema fields may be defined as read-only, initialize-only, or fully updateable.

New Document-Centric Forms

Lightweight xpath mapping allows XML documents to be mapped easily to Web application UI components. In addition, data posted from application forms is then mapped back to its XML document format automatically.

Enhanced ServiceCenter Adapter

The ServiceCenter adapter now supports mapping database arrays to schema collections.

Usability

New Tabbed Navigation

Using the standard Peregrine Portal, side menus can now be organized into tabs, allowing for more manageable menus.

New Accessibility

An alternate interface option has been added to support ADA Section 508-compliance. While much of the responsibility for compliance still lies with the application, the Platform now provides the basic infrastructure.

Enhanced Skins

The skins have been redesigned to support the new tabbed interface. The process of creating new skins has been greatly simplified.

Performance

Enhanced Core Routines/Optimized Base Classes

Heavily-trafficked paths through the OAA base code have been significantly optimized. Core objects such as Message, Messenger, EasyDOM, and so on, that are heavily used in application code have also been optimized.

Enhanced System Logging

System logging was enhanced to permit asynchronous log operations. This feature greatly improves performance when running with log information turned on.

New Thread Priority Management

Thread priority management was introduced to prevent background operations (script pollers, logging, and so on) from degrading perceived end-user performance.

New JSP Caching

JSP pages can now be cached to avoid redundant page generation. Pages can be marked as cacheable, either per session or for the entire server.

New Adapter Pooling

Most adapters now support multiple instances and multiple concurrent connections to improve overall throughput.

Enhanced Multithreading

Synchronization locks have been moved closer to core functionality to allow more parallel operations.

Enhanced Load Balancing

The Peregrine OAA Platform session state is now completely serializable and can be safely configured in a load-balanced environment as a distributable application.

Administration

New JAAS-based Authentication

User authentication is now performed using JAAS, which supports the UNIX operating environment, Windows NT, Kerberos, Keystore, or any mechanism supported by Java Naming and Directory Interface (JNDI), including LDAP.

Enhanced Security

Through JAAS-based authentication, Peregrine OAA Platform is now aware of the user associated with each thread of execution. Enhanced security is enabled through use of a JAAS authorization model. Each thread of execution can be associated with a user and activities restricted through application of a Role and Permission-based security policy.

Script pollers can now be run as the anonymous user (default behavior) or configured to run as a specific user, subject to that user's capabilities as defined by the security policy.

New Usage Monitoring

User sessions can now be tracked and logged per module. This simplifies the effort of determining the number of concurrent daily users serviced by the system.

Enhanced Configuration

Administration settings are now defined as XML for each package, rather than in a global INI settings file. This reduces the need for settings specific to packages which are not installed.

Related Documentation

The *Peregrine OAA Platform Reference Guide* is provided as a companion to the guides for your Peregrine Web application. The guide includes chapters on platform security, adapters, configuring the alternate supported application servers, and load balancing.

Documentation Web Site

For a complete listing of the current Peregrine OAA Platform 2.2 documentation, see the Documentation pages on the Peregrine Customer Support Web site at:

http://support.peregrine.com

You will need your company's current login and password to access this Web page.

For copies of the manuals, you can download .pdf files of the documentation using the Adobe Acrobat Reader (also available on the Web site).

Additionally, you can order printed copies of the documentation through your Peregrine sales representative.

Compatibility Matrices

The following tables identify the hardware and software requirements for installing this release, as well as the platforms on which Peregrine OAA Platform 2.2 can be installed:

- Table 1: Servers—Requirements for installing Peregrine OAA Platform on three platforms, Windows, Solaris, and Linux, including supported Peregrine back-end systems.
- Table 2: Clients—Requirements for clients accessing the Peregrine OAA Platform server.

Peregrine recommends that you check the Web sites of the suppliers of the platforms in use at your site to verify that they are still supported. Peregrine does not support platforms that are no longer supported by the vendor.

Refer to the release notes for your Peregrine Web application for requirements specific to your application.

Table 1: Servers

	Windows	Solaris	Linux
Operating System	Windows NT Server, version 4.0 SP6 or later Windows 2000 Server	Solaris 2.7 and 2.8	Red Hat 6.2 and 7.1
Supported Back-End Systems	AssetCenter 3.02 through 3.6 ServiceCenter 3.0 SP3 or later ServiceCenter 4.x Oracle 8.1.7	AssetCenter 3.6 ServiceCenter 3.0 SP3 or later ServiceCenter 4.x	AssetCenter 3.6 ServiceCenter 3.0 SP3 or later ServiceCenter 4.x
Application Servers	Apache Tomcat 3.2.4 Allaire JRun 3.1 IBM WebSphere 4.0.1 BEA WebLogic 6.1 SP1	Apache Tomcat 3.2.4 Allaire JRun 3.1 BEA WebLogic 6.1 SP1	Apache Tomcat 3.2.4 Allaire JRun 3.1 BEA WebLogic 6.1 SP1
Web Servers	Microsoft IIS 4.0 (with Windows NT 4.0) Microsoft IIS 5.0 (with Windows 2000) Apache Server 1.3.20	Apache 1.3.20 NES 4.1 SP5	For Red Hat 6.2, use Apache 1.3.14 For Red Hat 7.1, use Apache 1.3.20
Java Run-Time Environment	JDK 1.3.1 if using Tomcat as your app server JRE 1.3.1	JDK 1.3.1 if using Tomcat as your app server JRE 1.3.1	JDK 1.3.1
Hard Drive Space	Minimum 150 MB	Minimum 100 MB	Minimum 100 MB
RAM	512 MB	512 MB	512 MB
Languages	English, French, German, Italian, Japanese, Polish, Spanish	ServiceCenter 4 - English only ServiceCenter 3 - English, French, German AssetCenter 3.6 - English and French	ServiceCenter 4 - English only ServiceCenter 3 - English, French, German AssetCenter 3.6 - English and French

Table 2: Clients

	Windows	Solaris	Linux	Macintosh
Operating Systems	Windows 95, 98 and Windows NT 4.0 SP6 Windows 2000	Solaris 2.7 and 2.8	Red Hat 6.2 and 7.1	Any version of Mac OS that supports Internet Explorer 5
Web Browsers	Microsoft IE 5.05/ 5.5 Netscape 4.7x and 6.1+	Netscape 6.1+ Mozilla 0.9.x	Netscape 6.1+ Mozilla 0.9.x	IE 5
Screen Resolution	800x600 or above	800x600 or above	800x600 or above	800x600 or above

Known Issues

The following table includes known issues and their temporary solutions.

Issue	Temporary Solution
Netscape 4.x browsers may not behave properly if the browser is resized while Peregrine OAA Platform is running.	Avoid sizing the browser after starting Peregrine OAA Platform.
When logged in to Peregrine OAA Platform, using the browser Back, Forward, and Refresh buttons can cause unexpected behavior of Peregrine OAA Platform forms.	Do not use the browser navigation or Refresh buttons with Peregrine OAA Platform forms displayed.
On a Solaris or Linux system, if you use a schema or server-side JavaScript with a file name that is mixed upper- and lowercase, you will get a “Schema not found” error.	If you add a schema or a server-side JavaScript, make the file name all lowercase.
After refreshing the Peregrine OAA Platform login page (login.jsp), the language option drop-down list and the Login and Register buttons may not be displayed. This is true for both Internet Explorer and Netscape browsers.	Click Refresh again to bring the buttons back. The cause is unknown at this time, but does not appear to be caused by a problem in the Peregrine OAA Platform software itself.

Issue	Temporary Solution
The tblcreate.bat script fails to run.	tblcreate.bat (or -.sh for UNIX), the table-creation and -population batch file for BizDoc, depends upon the rome.xml file. This file contains paths to various components used by the scripts called by tblcreate.bat. To avoid problems with the .bat file, follow UNIX rules for these paths: 1. Case-sensitive. 2. No spaces. 3. If spaces are used, use escape characters. 4. Folders separated by forward slashes.
If you enter an incorrect setting in the Content type encoding field on the Common tab of the Settings page, when you Save the page, an error message is displayed on the Control Panel.	Return to the Settings page and enter the correct value. Supported values are listed in the documentation for your Web application. You can also click the link to the default setting located in the description for the Content type encoding field.

Lookups for some forms will fail in Netscape browsers due to a known issue with Mozilla-based browsers reported to Mozilla and Apache. The problem is related specifically to the fact that the browsers are not properly handling HTTP header chunking. The problems are most noticed using Apache HTTP Server 1.3.xx and Tomcat 3.2.x. This issue has also been reported against Microsoft Internet Explorer browsers, but has not been seen by Peregrine Systems.	Add the following lines to the Apache http.conf file for your browser:
	`BrowserMatch "Mozilla/5" downgrade-1.0 force-response-1.0`
	`BrowserMatch "Mozilla/4" nokeepalive downgrade-1.0 force-response-1.0`
	This will force Apache to communicate with Netscape 6 and Mozilla browsers.

Personalization changes lost or unexpected behavior with personalization.	Avoid the use of special characters (for example, quotation marks or apostrophes) in personalized section titles.

Issue	Temporary Solution
Tomcat fails to launch after a new version of the JDK is installed.	The Peregrine OAA Platform installer stores JAR files at c:\oaa\external (or to the drive you specify). These files are copied to the JDK jre\lib\ext directory. When a new JDK is installed, all of the JAR files in the c:\oaa\external directory must be manually copied to the new JDK jre\lib\ext directory.
The Classic Theme is the only theme deployed during installation.	The additional themes are zip files located in the oaa\packages directory. You can identify the theme names from these zip file names. To deploy the optional themes, do the following: 1. In a command prompt window, change directories to the oaa\packages directory. 2. Type: java -jar OAADeploy.jar <theme name> <theme name> List each theme you want to deploy, separated by a space. For example: java -jar OAADeploy.jar bluestheme hightechtheme bajatheme 3. Press ENTER. 4. Log in as an administrator. Go to Administration > Control Panel, and click Reset Server.

Need Further Assistance?

For further information and assistance with this release or Peregrine OAA Platform in general, contact Peregrine Customer Support.

Peregrine CenterPoint Web Site

Current details of local support offices are available through the following main contacts or through the Peregrine CenterPoint Web site at:

http://support.peregrine.com

After logging in, select **Whom Do I Call?** from **Contents** on the left side of the page to display the **Peregrine Worldwide Contact Information**.

Corporate Headquarters

Address:	Peregrine Systems, Inc. Attn: Customer Support 3611 Valley Centre Drive San Diego, CA 92130
Telephone:	1.858.794.7428
Fax:	1.858.480.3928

North America and South America

Telephone:	1.800.960.9998 (US and Canada only, toll free)
	1.858.794.7402 (Mexico, Central America, and South America)
Fax:	1.858.480.3928
E-mail:	support@peregrine.com

Europe, Asia/Pacific, Africa

For details of local offices, see the Peregrine CenterPoint Web site (see *Peregrine CenterPoint Web Site* on page 14).

You can also contact the Corporate Headquarters using the information provided above.

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