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Chapter 1

Introduction

Licensing Introduction

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Covered Products and Releases

The following Oracle products are covered by this document:

- PeopleSoft Asset Lifecycle Management
  - PeopleSoft IT Asset Management
  - PeopleSoft Maintenance Management
  - PeopleSoft Lease Administration
  - PeopleSoft Self-Service Work Requests
- PeopleSoft Enterprise Service Automation
  - PeopleSoft Contracts
  - PeopleSoft Expenses
  - PeopleSoft Grants
  - PeopleSoft In-Memory Project Discovery
  - PeopleSoft Pay/Bill Management
  - PeopleSoft Program Management
  - PeopleSoft Project Costing
• PeopleSoft Proposal Management
• PeopleSoft Resource Management
• PeopleSoft Staffing Front Office

• PeopleSoft Financials
  • PeopleSoft Cash Management
  • PeopleSoft eSettlements
  • PeopleSoft Financials
  • PeopleSoft In-Memory Financial Allocations Analyzer
  • PeopleSoft In-Memory Financial Position Analyzer
  • PeopleSoft Transaction Billing Processor
  • PeopleSoft Treasury

• PeopleSoft Supply Chain Management
  • PeopleSoft Catalog Management
  • PeopleSoft eProcurement
  • PeopleSoft eSupplier Connection
  • PeopleSoft Inventory
  • PeopleSoft Mobile Inventory Management
  • PeopleSoft Order Management
  • PeopleSoft Purchasing
  • PeopleSoft Services Procurement
  • PeopleSoft Strategic Sourcing
  • PeopleSoft Supplier Contract Management

• PeopleSoft PeopleTools 8.57

**Note:** For previous PeopleTools releases, see the document titled *Licensing Notes for Oracle's PeopleTools* for your release, located on Oracle Technology Network (OTN).
Chapter 2

PeopleSoft Financials and Supply Chain Management 9.2 Licensing

PeopleSoft FSCM 9.2 Licensing Information

PeopleSoft FSCM 9.2 Prerequisites, Entitled Products, and Restricted Use Licenses

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| | | The customer may use PeopleSoft PeopleTools to develop interfaces and modifications, including creation of new application data tables, only to the licensed PeopleSoft programs. Oracle will deliver these programs to you per the terms of the Delivery and Installation section.
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<td>Some features of this product use COBOL. See <a href="#">Using COBOL with PeopleSoft</a> for more details.</td>
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<td><strong>Entitled Products and Restricted Use Licenses</strong> PeopleSoft Project Costing, part of the PeopleSoft Financials and Supply Chain (FSCM) product family, contains mapping, geocoding, and/or routing (collectively, “geolocation”) functionality. Beginning with PeopleSoft FSCM Update Image 16 the geolocation functionality in PeopleSoft Project Costing may be used only for so long as you maintain a subscription to the separate Oracle Maps Cloud Service for PeopleSoft. Your use of Oracle Maps Cloud Service for PeopleSoft shall be subject to the separate terms applicable to such service.</td>
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<td>Note: If the user is a tenant or lessee, PeopleSoft Payables (part of PeopleSoft Financials) is a prerequisite. If the user is a landlord or lessor, PeopleSoft Billing (part of PeopleSoft Financials) and Transaction Billing Processor are prerequisites.</td>
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<td>PeopleSoft Resource Management, part of the PeopleSoft Financials and Supply Chain (FSCM) product family, contains mapping, geocoding, and/or routing (collectively, “geolocation”) functionality. Beginning with PeopleSoft FSCM Update Image 16 the geolocation functionality in PeopleSoft Resource Management may be used only for so long as you maintain a subscription to the separate Oracle Maps Cloud Service for PeopleSoft. Your use of Oracle Maps Cloud Service for PeopleSoft shall be subject to the separate terms applicable to such service.</td>
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Using COBOL with PeopleSoft

The products identified in the previous table use COBOL for one or more features. These products require a separate license for a certified COBOL compiler.

COBOL compiler versions that are certified for use with PeopleTools 8.57 include:

- IBM COBOL for AIX 4.1
- IBM Enterprise COBOL for z/OS (versions 5.1, 4.2)
- Microfocus COBOL NetExpress 5.1
• Microfocus COBOL Server Express 5.1

If the Micro Focus COBOL compiler is selected, contact Oracle to purchase your license. If an IBM COBOL compiler is chosen, the license would be obtained directly from IBM.

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<td>jQuery Validation Plug-in</td>
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<td>Paul Bakaus</td>
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| PayPal      | PayPal Express Checkout API | ACCESS TO PAYPAL WEB SITES, CONTENT, PRODUCTS AND SERVICES:  
This Oracle program may provide access to PayPal (“PayPal”) services. Use of PayPal services may require enabling, linking to, transmitting content to, or otherwise accessing, PayPal websites, platforms, content, products, services, and information (“PayPal Services”). Oracle does not control and is not responsible for provision of any PayPal Services and any information accessible from or provided through PayPal Services. Oracle will not be responsible for the security, privacy and confidentiality of any information and content provided by any users to PayPal. Further, you acknowledge that PayPal may require users of PayPal Services to accept PayPal’s terms and conditions (“PayPal User Agreements”) prior to use of such PayPal Services. Any such PayPal User Agreements are solely between the user and PayPal.  
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| Twilio      | Twilio API    | ACCESS TO TWILIO WEB SITES, CONTENT, PRODUCTS AND SERVICES:  
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PeopleSoft PeopleTools 8.57 Licensing Information

PeopleTools 8.57 Product Editions and Permitted Features

When you license any PeopleSoft application, you automatically receive a restricted use license to PeopleSoft PeopleTools, as described in the licensing information for your PeopleSoft application.

Should you choose to purchase a separate license for PeopleSoft PeopleTools as a standalone product (in addition to the restricted use license included with PeopleSoft applications), the following editions are available:

- PeopleTools - Enterprise Development

  Notwithstanding anything in the applicable license agreement to the contrary, PeopleTools - Enterprise Development shall be used solely to develop applications for internal data processing operations. In no event shall the customer market or distribute such applications.

  For a complete list of entitled products and restricted use licenses that are provided with this product edition, see Licensing Information User Manual for PeopleSoft PeopleTools for your release.

- PeopleTools - Enterprise Development Starter Kit

  Notwithstanding anything in the applicable license agreement to the contrary, PeopleTools - Enterprise Development Starter Kit shall be used solely by 5 named users to develop applications containing no more than a total of 20 components (as defined in the program documentation) for your internal data processing operations. In no event shall you market or distribute such applications.

  For a complete list of entitled products and restricted use licenses that are provided with this product edition, see Licensing Information User Manual for PeopleSoft PeopleTools for your release.

PeopleTools 8.57 Prerequisites, Entitled Products, and Restricted Use Licenses

<table>
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<tr>
<th>Product</th>
<th>Subproduct or Functional Area</th>
<th>Licensing Information</th>
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<tr>
<td>PeopleSoft PeopleTools</td>
<td>Application Server</td>
<td><strong>Entitled Products and Restricted Use Licenses</strong></td>
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<td>The Oracle Tuxedo license included with PeopleTools is a Restricted Use License that may only be used to run PeopleSoft applications. The use of this Tuxedo license outside of the scope of PeopleSoft applications is not permitted.</td>
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<td>Also see Oracle Tuxedo Third-Party Notices and/or Licenses.</td>
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<td>Application Server, Batch</td>
<td>Oracle’s Java Platform Standard Edition (Java SE) is included with PeopleTools and is intended only for use in conjunction with running PeopleSoft applications. If you use Java SE in any other way or if you use a different version of Java SE than that provided with PeopleTools, your use of Java SE is subject to the terms set forth at <a href="http://www.oracle.com/technetwork/java/javase/terms/license">http://www.oracle.com/technetwork/java/javase/terms/license</a>. Also see the third-party licenses in the Java SE 8 Third Party License Readme.</td>
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<td>PeopleSoft</td>
<td>Cloud Manager</td>
<td><strong>Prerequisite Products</strong></td>
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| PeopleTools      |                               | PeopleSoft Cloud Manager creates and maintains PeopleSoft environments on Oracle Cloud. For a customer to deploy and use PeopleSoft Cloud Manager, an Oracle Cloud Infrastructure as a Service (Oracle Cloud IaaS) subscription with sufficient capacity is required. A customer using PeopleSoft Cloud Manager is required to have separately purchased licenses for all of the PeopleSoft application products that will be installed/managed by PeopleSoft Cloud Manager for Oracle Cloud. To run PeopleSoft COBOL modules on Oracle Cloud, the customer is required to separately purchase a license for the Microfocus COBOL Server Express for Linux Compiler product. All PeopleSoft environments provisioned by the PeopleSoft Cloud Manager for Oracle Cloud will require the Oracle Database. Customers may choose a subscription to Oracle Database Cloud Service (DBCS) or Oracle Database Exadata Cloud Service (Exadata Service) to obtain a database license to run their PeopleSoft applications. For development and test environments, a database license may be purchased to use with a PeopleSoft database running on Oracle Cloud IaaS. Customers using PeopleSoft Cloud Manager to deploy PeopleSoft production environments are required to use either a DBCS or Exadata Service subscription for the provisioned database(s). PeopleSoft Cloud Manager can enable the monitoring of PeopleSoft environments on Oracle Cloud through Oracle Enterprise Manager, hosted on-premises. Customers using this monitoring feature must separately purchase licenses for the following products:  
  • Oracle Enterprise Manager  
  • Oracle Hybrid Agent  
  • Oracle Application Management Pack for PeopleSoft |
<p>|                  |                               | <strong>Entitled Products and Restricted Use Licenses</strong> |
|                  |                               | As a licensee of PeopleTools, you are entitled to install and configure the PeopleSoft Cloud Manager within Oracle Cloud. The Cloud Manager is an application that can be obtained from Oracle Cloud Marketplace. Cloud Manager ships on top of a PeopleSoft Interaction Hub database; however only Cloud Manager functionality is supported from the PeopleSoft Cloud Manager installation from Oracle Cloud Marketplace. PeopleSoft Interaction Hub functionality is not supported from the Cloud Manager installation. For PeopleSoft Interaction Hub functionality, please separately download and install the PeopleSoft Interaction Hub product. PeopleSoft Cloud Manager requires the use of Oracle Database 12c. As a licensee of PeopleTools, you are granted a restricted use license of Oracle Database Standard Edition 2 for the sole purpose of running PeopleSoft Cloud Manager on Oracle Cloud Infrastructure as a Service (Oracle Cloud IaaS). |</p>
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<td>Cube Builder</td>
<td><strong>Prerequisite Products</strong></td>
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<td>PeopleTools</td>
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<td>Oracle Hyperion Essbase is shipped separately from PeopleTools (there are separate licensing components for the integration and the end-user product).</td>
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<td>PeopleSoft</td>
<td>Database Server</td>
<td><strong>Prerequisite Products</strong></td>
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<td>PeopleTools</td>
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<td>PeopleTools supports and provides integration with Oracle Transparent Database Encryption (TDE) technology.</td>
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<td>TDE is a separately licensed product. TDE is bundled with Oracle Advanced Security Options (ASO).</td>
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| PeopleSoft PeopleTools | Mobile Archive | **Entitled Products and Restricted Use Licenses**  
PeopleSoft application programs include a mobile application archive or library ("Mobile Archive") based on Oracle Mobile Application Framework Foundation.  

Your use of the Mobile Archive is limited to the following activities:  

- Inserting your brand or logo where indicated (removing Oracle’s brands and logos, if any) in the Mobile Archive.  
- Modifying the Mobile Archive as permitted by the “Oracle Mobile Application Framework Foundation” section below.  
- Compiling, completing, and signing the Mobile Archive with your own mobile operating system-specific certificate(s), thereby creating a mobile application (“Mobile Application”).  
- Distributing the Mobile Application within your enterprise or entity to your internal users and/or to your third party end users (“End Users”). You may not distribute the Mobile Archive to End Users except those internal End Users involved with modifying, compiling, completing, and signing the Mobile Archive.  

With respect to creating a Mobile Application, you acknowledge that you must separately agree to and abide by license terms with the applicable mobile operating system provider and possibly other third parties. For example, for iOS applications, you agree that the Mobile Application, in whole or in part, may not be installed on a mobile device or executed except as incorporated into an iOS application that has been signed using an appropriate Apple-issued certificate that you obtained directly from Apple and that is deployed in full compliance with your agreement with Oracle (including these terms) and license terms set forth in a separate agreement between you and Apple.  

Any Mobile Application distribution to End Users must be subject to a legally binding end user license agreement (the “EULA”) between you and each End User pertaining to the Mobile Application that must, at a minimum, contain the following terms:  

a) Include acknowledgements by you and the End User that the EULA is concluded between you and the End User only and that the following apply:  

i. You are solely responsible for each Mobile Application’s content, maintenance, and support.  
ii. You are solely responsible for addressing, settling, and discharging any claims of the End User or any third party relating to the Mobile Application or the End User’s possession and/or use of that Mobile Application, including, but not limited to product liability claims; any claim that the Mobile Application fails to conform to any applicable legal or regulatory requirement; any claims arising under consumer protection or similar legislation; and any claims that the End User’s possession and use of that Mobile Application infringes a third party’s intellectual property rights.  

b) Provide only a non-transferable, terminable license to the End User that prohibits (i) modifying or creating derivative works or (ii) decrypting, decompiling, reverse engineering, disassembling or attempting to derive the Mobile Application source code (unless such actions are expressly permitted by applicable law).  

c) Notify the End User that the Mobile Application is subject to a restricted license and can be used only in conjunction with the specific Oracle-based solution(s) for which it is designed.  

d) Provide no limitation of your liability to the End User beyond what is permitted by applicable law.
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<td>e) Require the End User to comply fully with all relevant export laws and regulations of the U.S. and other applicable export and import laws to assure that the Mobile Application, nor any direct products thereof, is exported, directly or indirectly, in violation of applicable laws.</td>
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<td>f) State in the EULA your name and address to which any End User questions, complaints or claims with respect to the Mobile Application can be directed.</td>
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<td>g) State in the EULA that the End User must comply with applicable third-party terms when using the Mobile Application and that third-party components that may be appropriate or necessary for use with the Mobile Application are specified in the documentation for that program (or as otherwise notified by you) and that those third party components are licensed to the End User only for use with the Mobile Application under the terms of the third party license agreement specified in the documentation for that program (or as otherwise notified by you) and not under the terms of the EULA.</td>
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<td>h) State that the licenses provided in the EULA automatically terminate upon breach of the EULA terms and in addition that the licenses provided in the EULA may be terminated upon notice.</td>
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<td>i) State that upon termination of the EULA the End User must discontinue all use of the Mobile Application and to delete all copies of the Mobile Application.</td>
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<td>j) Disclaim in the EULA, to the extent permitted by applicable law, a third party’s liability for (a) any damages, whether direct, indirect, incidental, special, punitive or consequential, and (b) any loss of profits, revenue, data or data use, arising from use of the Mobile Application.</td>
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<td>k) Designate Oracle as a third party beneficiary. Oracle will have the right to enforce the EULA against the End Users.</td>
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<td>l) State that your licensors retain all ownership and intellectual property rights in the Mobile Application.</td>
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</table>

You agree to inform Oracle promptly if you are aware of any breach of the EULA. You agree to be financially responsible to Oracle for all damages or losses caused by your failure to include the required contractual terms set forth above in each EULA between you and an End User.
MAF Foundation is the version of Oracle Mobile Application Framework that is restricted for use as described in this document. When MAF Foundation is included as a component within another Oracle product (the “Primary Product”) then, depending on the particular Primary Product, MAF Foundation may be included in the Primary Product, may be separately downloaded from Oracle Software Delivery Cloud, or may be downloaded as an extension to Oracle JDeveloper. JDeveloper is a prerequisite to using MAF Foundation and must be downloaded from Oracle Technology Network (“OTN”); see http://www.oracle.com/technetwork/developer-tools/jdev/downloads/index.html. Notwithstanding any other terms, use of JDeveloper is subject to the OTN license agreement associated with JDeveloper; view the license agreement at http://www.oracle.com/technetwork/licenses/jdev-license-152012.html.

Definitions

“Application Archive” refers to the MAF Foundation mobile application archive, which is an Oracle proprietary mobile application deployment format that can only be used with Oracle supported development tools. It is not related to or based on any non-Oracle application archive format, including iOS application archives.

“Application Executable” refers to a mobile application executable installation file, such as an apk or ipa file.

“Application Workspace” refers to a series of files making up the source code of a mobile application developed using MAF Foundation.

“Data Control” refers to MAF Foundation mobile application artifacts that provides standard metadata interfaces to business services (such as web services) accessed by the mobile application.

“Feature” refers to specific MAF Foundation mobile application artifacts that are the building blocks of a mobile application, where each Feature integrated into the mobile application performs a specific set of tasks.

MAF Foundation Capabilities That May Be Used

• Sign and deploy Application Archive or Application Workspace into an Application Executable.

  You may sign the mobile application with the appropriate certificates, and deploy the Application Archive or Workspace into an Application Executable.

• Make modifications to an Application Archive as specified, except as listed in “MAF Foundation capabilities that may not be used”.

  The following modifications to Application Archives are allowed. For details of how to work with MAF Foundation Application Archives, consult the Mobile Application Framework Developer Guide.

  i. Deploy a browser-based Oracle mobile application into MAF Foundation to run as Remote URL Feature(s).
### MAF Foundation Capabilities That May Not Be Used

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<td>ii. Access device-native services such as the notification framework or camera.</td>
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<td>iii. Change branding details such as mobile application/navigation bar icons and skins.</td>
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<td>iv. Modify business logic components and the user interface of the mobile application to align with your implemented business processes and customizations in the associated Oracle non-mobile application(s).</td>
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</table>

- **Distribute Application Executable generated from Application Archive or Application Workspace.**
  
  You may distribute the Application Executable generated from an Application Archive to the extent permitted by, and in full compliance with, (a) the Oracle license terms associated with the Primary Product, and (b) any applicable third-party distribution terms and conditions required either by the mobile operating system provider or the application distribution platform provider (e.g., Apple Inc., Google, Inc.).

- **Manage the mobile application using mobile application management (MAM) solutions.**
  
  You may use MAM solutions with mobile applications generated from an Application Archive; for example, wrapping the mobile application binaries with the containers provided by the MAM solution.

**MAF Foundation Capabilities That May Not Be Used**

- **Add a new Mobile Application Framework Feature.**
  
  You may NOT add a new MAF Feature such as AMX or Local HTML-based features, except when embedding a web-based Oracle Application as a Remote URL Feature.

- **Add a Remote URL Feature to Applications outside of App License Agreement.**
  
  You may NOT add a Remote URL Feature pointing to any application or features that are not part of the Primary Product. For example, for an Application Archive shipped as part of the Oracle PeopleSoft application, add a Remote URL Feature pointing to Oracle Siebel CRM application or to third party applications.

- **Add a new MAF Data Control.**
  
  You may NOT add a new Data Control to the MAF-based mobile Application Archive or Application Workspace. For example, a Web Service Data Control that exposes backend data services or a Bean Data Control that exposes custom Java code to the application’s user interface.

Any use of these capabilities requires an appropriate quantity of full use licenses for (a) Oracle Mobile Application Framework, or (b) Oracle Mobile Suite and Oracle Mobile Suite Client Runtime.
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<td>PeopleSoft</td>
<td>MultiChannel Framework</td>
<td><strong>Prerequisite Products</strong></td>
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<td>If you are using a Cisco Computer Telephony Integration (CTI) system with the</td>
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<td>PeopleSoft CTI Java applet console, the assumption is that you already have a</td>
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<td>functioning and appropriately licensed Cisco system configured at your site. The Cisco</td>
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<td>Java API is shipped as part of the CTI applet; however, no other Cisco products are</td>
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<td>shipped with the PeopleSoft system.</td>
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<td>If you use Cisco CTI, you need a Cisco ICM Central Controller Server installed and</td>
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<td>configured before you begin installing your PeopleSoft CTI system.</td>
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<td>Your PeopleSoft application may require an IVR supported by Cisco and capable of</td>
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<td>passing call data to Cisco. This enables CTI components to attach data to incoming</td>
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<td>For detailed information about specific PeopleSoft-supported versions, refer to My</td>
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* ASM: a very small and fast Java bytecode manipulation framework

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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python, version 3

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes
1.6 1.5.2 2000 CNRI no
2.0 1.6 2000 BeOpen.com no
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Mersenne Twister
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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

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Sockets

-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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Original location:

https://github.com/majek/csiphash/

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Lib/compiler/transformer.py

# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
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"""
Lib/statistics.py
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## Module statistics.py

##

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Oracle Tuxedo provides the foundation for the Oracle Tuxedo product family. Oracle Tuxedo includes the following components:

- Oracle Tuxedo Server
- Oracle Tuxedo Standalone Clients

Add-on Products for Oracle Tuxedo

The Oracle Tuxedo product family consists of the following add-on products. Some of these products are included in the Oracle Tuxedo installer, however, a license to Oracle Tuxedo does not include a license to these add-on products. A license to Oracle Tuxedo is a prerequisite to license and use each add-on product.

Tuxedo Server Components

Oracle Tuxedo Jolt provides Java-based client API to access the Oracle Tuxedo application services extending functionality of existing Oracle Tuxedo applications to Intranet- and Internet-wide availability. The Jolt client API can be used in standalone mode or from within an application server, such as Oracle WebLogic server.

Oracle Tuxedo Jolt consists of two components: Oracle Tuxedo Jolt server and Oracle Tuxedo Jolt client. Oracle Tuxedo Jolt must be separately licensed for each computer where the Oracle Tuxedo Jolt server component is installed. A license to Oracle Tuxedo Jolt includes the Tuxedo Jolt client software.

- Oracle Services Architecture Leveraging Tuxedo (SALT)
  Oracle SALT enables access to Oracle Tuxedo services as web services as well as enables Oracle Tuxedo applications to access Web services hosted outside of the Oracle Tuxedo domain.

- Oracle Tuxedo System and Applications Monitor Plus (TSAM Plus)
  Oracle TSAM monitors and manages system servers, application servers, and application transactions. A license to Oracle TSAM Plus is required for each computer that you want to monitor and manage using Oracle TSAM Plus. A license to Oracle TSAM Plus entitles you to run one or more instances of TSAM Plus Manager component on the computer.
  
  A license to Oracle TSAM Plus includes a license to the plugin for Oracle Enterprise Manager Cloud Control (OEM CC) 12c to manage one Oracle Tuxedo node.


- Oracle Tuxedo JCA Adapter
  Oracle Tuxedo JCA Adapter enables bi-directional access between Tuxedo services and Java Enterprise Edition (Java EE) application servers.
Oracle Tuxedo JCA Adapter must be licensed on the node which is running the Java EE application server, and which is communicating with Oracle Tuxedo Services.

- **Oracle Tuxedo Mainframe Adapters (SNA and TCP)**

  Oracle Tuxedo Mainframe Adapters (SNA and TCP) provide bi-directional and transactional connectivity between Oracle Tuxedo and CICS/IMS services running on IBM or Unisys mainframes. These adapters support automatic data conversion to and from HOST formats.

- **Oracle Tuxedo Application Runtime (ART) for CICS and Batch**

  Oracle Tuxedo Application Runtime (ART) for CICS and Batch supports rehosting of IBM CICS and batch mainframe applications to Oracle Tuxedo. It provides a combination of APIs and services that allows OLTP and Batch mainframe applications to run unchanged, preserving investment in business logic and data.

- **Oracle Tuxedo Application Runtime (ART) for Batch**

  Oracle Tuxedo Application Runtime (ART) for Batch enables rehosting of mainframe batch applications to Oracle Tuxedo running on open systems.

- **Oracle Tuxedo Application Runtime (ART) for IMS**

  Oracle Tuxedo Application Runtime (ART) for IMS supports IBM IMS TM mainframe applications rehosted to Oracle Tuxedo.

- **Oracle Tuxedo Application Rehosting (ART) Test Manager**

  Oracle Tuxedo Application Rehosting (ART) Test Manager is a tool for managing and automating testing of rehosted CICS, IMS, and Batch applications running on Tuxedo Application Runtimes.

  If licensing by Processor, the number of licenses to ART Test Manager must match the number of licenses to the associated Oracle Tuxedo Application Runtime (CICS & Batch, IMS or Batch). In the case where the programs are licensed at different times, the number of Processor licenses may not match due to variance in core factors between the times the respective programs were licensed.

  In that case, the number of cores used to determine the number of licensed processors of ART Test Manager must match the number of cores used to determine the number of licensed processors of Oracle Tuxedo Runtime (CICS & Batch, IMS or Batch).

- **Oracle Tuxedo Advanced Performance Pack**

  Oracle Tuxedo Advanced Performance Pack consists of following features:

  - Routing of all Oracle Database (Database) requests from a global transaction to same Oracle Real Application Cluster (RAC) instance using XA affinity and common XID
  - Automatic, real time load balancing across available RAC, Database nodes
  - Auto failover/failback across RAC and Database nodes
  - Auto SPINCOUNT tuning
  - Shared memory queues
Efficient Transaction Table Locking

The number of licenses to Oracle Tuxedo Advanced Performance Management Pack must match the number of licenses to Oracle Tuxedo.

Independent Products

The following products in the Oracle Tuxedo product family are separately licensed without any dependency on any other products.

- Oracle Tuxedo Application Rehosting Workbench
  Oracle Tuxedo Application Rehosting Workbench is used for mainframe application rehosting.

- Oracle Tuxedo Message Queue
  Oracle Tuxedo Message Queue is an enterprise messaging product. Oracle Tuxedo Message Queue must be licensed for each node it is installed on.

- Oracle Tuxedo Optimizations for Exalogic Elastic Cloud Software
  The following sections describe the following Oracle Tuxedo optimizations for Oracle Exalogic Elastic Cloud Software:
  
  - Oracle Tuxedo Optimization for Inter-node Communication
    Oracle Exalogic Elastic Cloud Software can be configured with Oracle Tuxedo to provide inter-node communication within an Oracle Tuxedo domain.
  
  - Socket Direct Protocol for Exalogic Elastic Cloud Software
    Oracle Exalogic Elastic Cloud can be configured to utilize the socket direct protocol for Oracle Tuxedo network channels and Oracle Database connectivity.
  
  - Oracle Tuxedo Optimization for Lock Mechanism
    Oracle Exalogic Elastic Cloud Software can be configured with Oracle Tuxedo to tune the bulletin board lock mechanism in an Oracle Tuxedo domain.

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