Smarter, Faster, Better - XMLLP Reporting in PeopleSoft World.

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Principal Software Engineer
About Me

- Am Principal Software Engineer in Global support organization Oracle/PeopleSoft. I have 8 Plus years of Troubleshooting experience on customer's issues related to Reporting tools. I have given the Title “Problem Solver” for rollout of project for San Joaquin County California USA, Winner of STAR award and Outstanding contribution Award at Oracle Corporation.
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decision. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.
Agenda

- XMLP Overview
- Benefits of using XMLP Reporting Tool
- XMLP Troubleshooting Tips
- Peoplesoft Recommendations
- What’s new in PT8.50/PT8.51/PT.852
- Where to look for more information
- Q & A
Classic Reporting Tools Issues

- Data Logic
- Layout
- Translation

Report file

- High development cost
- High customization cost
- Difficult upgrade
Classic Reporting Tools Issues

- 1 data set : 10 layouts : 30 languages >> 300 reports
- Requires highly-skilled engineers for customization

Enterprise Apps: 10,000+ RPT files
XMLP Smart Tool

• XMLP is a Smart Tool which Meet’s the needs of our Most Demanding Customers.
What is XML Publisher?

- XMLP is Oracle’s strategic reporting tool
- A single solution for different reporting needs
- A standalone Java-based reporting technology
- Separate data extraction, layout, translations, and report output
Benefits of using XMLP

- Choose Your Design Tool
- Data from Anywhere
- Deliver to Anywhere
- Communicate with the World
- Unsurpassed Performance
- Open Standards and Easy Integration.
Benefits of using XMLP

Choose Your Design Tool

- Word Plug-in RTF Template
- PDF Template
- Any Text Editor XSL/eText
From Data to Destination

XML Publisher

Data Logic

Layout

Translation

Templates

• Word
• Excel
• Acrobat

Data Source

Layout Tools

Output Destinations

Oracle, SQL Server

PeopleSoft, SAP, Siebel

Java, C++, Pearl, etc

Web Services

PDF

RTF

HTML

Excel

XML

Email

Printer

Report Repository

e-Commerce
Extract Once – Publish Multiple Times

Payment Data

- XML
- EFT
- Excel
- HTML
- PDF
- XML

Different templates for different output formats

- Banking
- Controller
- CEO
- Government
- B2B

XML Publisher

Different templates for different output formats
Benefits of using XMLP

Communicates with the world
Benefits of using XMLP

Unsurpassed Performance
PeopleTools Integrated Solution

Data Source Manager

PS Query Connected

XML File Rowset or XML Doc

Data

Data XML Publisher Engine

Template

Template Manager

XML File

Word with Plug-In

Acrobat

Report

Process Scheduler

Report Manager

E-Mail *

Printer

E-Commerce *
XMLP TROUBLESHOOTING TIPS
Goal

Help understand XMLP Troubleshooting Techniques before contacting support.

Where to look for Information if in Trouble?

Peoplesoft Recommendations for running XMLP reports from Application.
Troubleshooting Points

- Simple setup
- XMLP Debugging is easy
- Choose the right Data sources (Query, Rowset, XMLDOC, XML file)
- Choose the right type of Template PDF/RTF?
- Clean XMLP Meta Data
- Performance Tuning Tips
- Implementation Tips
XMLP Setup

• Settings are defined in XDO.cfg file (default location is $PSHOME/appserv directory)
• Primary uses:
  • Setting a temporary directory
  • Setting properties for PDF, RTF, and HTML output
  • Setting PDF security properties
  • Setting font locations and substitutions
• No need to restart Appserver or Process Scheduler if just contents of xdo.cfg are changed
Sample XDO.cfg file.

<config version="1.0.0" xmlns="http://xmlns.oracle.com/oxp/config/">

<properties>

<!-- System level properties -->
<property name="xslt-xdoparser">true</property>
<property name="xslt-scalable">true</property>
<property name="system-cachepage-size">50</property>
<property name="system-temp-dir">CACHE</property>

<!-- PDF compression -->
<property name="pdf-compression">true</property>

<!-- PDF Security -->
  <!-- <property name="pdf-security">true</property> -->
  <!-- <property name="pdf-open-password">user</property> -->
  <!-- <property name="pdf-permissions-password">owner</property> -->

</properties>

<!--<fonts>-->
  <!--<font family="3 of 9 Barcode" style="normal" weight="normal">-->-->
  <!--<truetype path="PS-HOME\Fonts\3of9.ttf" />-->-->
</config>
XMLP setup (Contd.)

Screen shot of PSAPPSRV.cfg file Appserver configuration file

; Comment this line out to disable Performance Monitor agent for the domain irrespective of setting in the database.
; sd="Enable PPM Agent", dt="c", rq="N", hd="N", Id="Enable the Performance Monitor agent"
EnablePPM Agent=1

; Uncomment JavaVM Shared Library= to use a non-default JVM library.
; If you do so, you will probably have to set some environment variables to get the JVM to load and run correctly, depending on the operating system and the JVM.
; For the default JVM library, these environment variables are set by psconfig.sh.
; sd="JVM Shared Library Name", tip="Use this when you wish to override the JVM Library", rq="N", hd="Y", Id="Unc JavaVM Shared Library="

; sd="Add to Java Classpath", Id="Path additions to the CLASSPATH environment variable", rq="N"
Add to CLASSPATH=D:\BLD\GW900\MSS\H900G70\Library\bin\client

; To pass java options to the JVM loaded via JNI, uncomment JavaVM Options= and set it equal to the list of parameters you would like to use.
; The options need to be a blank space separated list of valid java options.
; Consult your JRE vendor for valid java options.
; For example, JavaVM Options=-Xmx256m -Xms128m
; sd="Java VM Startup Options", rq="N", Id="Used to pass Java options to the JVM loaded via JNI. Set this value equal to JavaVM Options= -Xrs -Dxda.ConfigFile=.\xda.cfg JavaVM Options=-Xrs -Dxda.ConfigFile=%PS_HOME%/appserv\xda.cfg

; If the application server is behind a proxy server,
; set "Proxy Host=www-proxy.us.oracle.com" to the domain name of the proxy server (proxy.peoplesoft.com)
; set "Proxy Port=80" to the port number of the proxy server (80)
; sd="Proxy Server Machine Name", rq="N", Id="Use this setting if the Application Server is behind a proxy server"
Proxy Host=www-proxy.us.oracle.com
XMLP setup (Contd..)

Screen shot of PSAPPSRV.cfg file Appserver configuration file

%Comment this line out to disable Performance Monitor agent for the domain irrespective of %setting in the database. %sd="Enable PPM Agent", dt="c", rq="N", hd="N", ld="Enable the Performance Monitor agent" EnablePPM Agent=1

%Uncomment JavaVM Shared Library= to use a non-default JVM library. %If you do so, you will probably have to set some environment variables to get %the JVM to load and run correctly, depending on the operating system and the JVM. %For the default JVM library, these environment variables are set by psconfig.sh. %sd="JVM Shared Library Name", tip="Use this when you wish to override the JVM Library", rq="N", hd="Y", ld="Unc JavaVM Shared Library=

%sd="Add to Java Classpath", ld="Path additions to the CLASSPATH environment variable", rq="N" Add to CLASSPATH=D:\BLDG900\ORACLE\J9000G70\jre\bin\client

%To pass java options to the JVM loaded via JNI, uncomment JavaVM Options= %and set it equal to the list of parameters you would like to use. %The options need to be a blank space separated list of valid Java options. %Consult your JRE vendor for valid java options. %For example, JavaVM Options=-Xmx256m -Xms128m %sd="Java VM Startup Options", rq="N", ld="Used to pass Java options to the JVM loaded via JNI. Set this value equal to the list of options to be passed through JNI to the JVM", JavaVM Options=-Xrs -Dxdo.ConfigFile=%PS_HOME%/appserv/xdo.cfg

%If the application server is behind a proxy server, %set "Proxy Host=www-proxy.us.oracle.com" to the domain name of the proxy server (proxy.peoplesoft.com) %set "Proxy Port=80" to the port number of the proxy server (80) %sd="Proxy Server Machine Name", rq="N", ld="Use this setting if the Application Server is behind a proxy server" Proxy Host=www-proxy.us.oracle.com

JavaVM Options=-Xrs -Dxdo.ConfigFile=%PS_HOME%/appserv/xdo.cfg
XMLP Setup (Cont’d..)

Screen shot of PSPRCS.cfg file Process scheduler configuration file

```
[PSTOOLS]
;General settings for PSTOOLS

;Comment this line out to disable Performance Monitor agent for the domain irrespective of
;setting in the database.
EnablePPM Agent=1

;Uncomment JavaVM Shared Library= to use a non-default JVM library.
;If you do so, you will probably have to set some environment variables to get
;the JVM to load and run correctly, depending on the operating system and the JVM.
;For the default JVM library, these environment variables are set by psconfig.sh.
JavaVM Shared Library=
Add to CLASSPATH=D:\BLD\G\H900\MISS\H900G70P\jre\bin\client

;To pass java options to the jvm loaded via JNI, uncomment JavaVM Options=
;and set it equal to the list of parameters you would like to use.
;The options need to be a blank space separated list of valid java options.
;Consult your JRE vendor for valid java options.
;For example, JavaVM Options=-Xmx256m -Xms128m
JavaVM Options=-Dxddd.ConfigFile=%PS_HOME%/appserv/xd0.cfg

;If the process scheduler is behind a proxy server,
;set "Proxy Host=www-proxy.us.oracle.com" to the domain name of the proxy server (proxy.peoplesoft.com)
;set "Proxy Port=80" to the port number of the proxy server (80)
Proxy Host=www-proxy.us.oracle.com
```
Screen shot of PSPRCS.cfg file Process scheduler configuration file

```xml
[PSTOOLS]
; General settings for PSTOOLS

;Comment this line out to disable Performance Monitor agent for the domain irrespective of
;setting in the database.
EnablePPM Agent=1

;Uncomment JavaVM Shared Library= to use a non-default JVM library.
;If you do so, you will probably have to set some environment variables to get
;the JVM to load and run correctly, depending on the operating system and the JVM.
;For the default JVM library, these environment variables are set by psconfig.sh.
JavaVM Shared Library=
Add to CLASSPATH=D:\BD\G\H900\MISS\H900G70P\jre\bin\client

;To pass java options to the JVM loaded via JNL, uncomment JavaVM Options= 
;and set it equal to the list of parameters you would like to use.
;The options need to be a blank space separated list of valid java options.
;Consult your JRE vendor for valid java options.
;For example, JavaVM Options=-Xmx256m -Xms128m
JavaVM Options=-Dxdo.ConfigFile=%PS_HOME%/appserv/xdo.cfg

;If the process scheduler is behind a proxy server,
;set "Proxy Host=www-proxy.us.oracle.com" to the domain name of the proxy server (proxy.peoplesoft.com)
;set "Proxy Port=80" to the port number of the proxy server (80)
Proxy Host=www-proxy.us.oracle.com
```

JavaVM Options=-Xrs -Dxdo.ConfigFile=%PS_HOME%/appserv/xdo.cfg
XDO Debugging/Logging Information

- Running XMLP reports in a Debug mode will help to narrow down the problem whether it is in the (XML data file, Template file, Application people code or in App engine program)

- XDO logging creates “XDO.log” file with detailed logging information.

- The files that are created during the XDO logging are XML, XSL, Translation(XLIFF) and Template files Ex( PDF, RTF) in the Location = Temporary directory specified in the LogDir.
XDO Debugging/Logging Information

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Please refer GCS Solution on Support Portal DOC ID :821195.1
(How to run XMLP reports in Debug mode/Turn ON XMLP logging)
Debugging XMLP Reports

Screen shot which Shows list of files created during the XMLP

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Modified</th>
<th>Size</th>
<th>Ratio</th>
<th>Packed</th>
<th>File Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>xdo_042310_034028226_xf_out.xsl</td>
<td>XSL Stylesheet</td>
<td>4/23/2018 3:40 PM</td>
<td>92,459</td>
<td>94%</td>
<td>5,612</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028226.xf_out.xff,xml</td>
<td>XML Document</td>
<td>4/23/2018 3:40 PM</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028226.xf_template.fff</td>
<td>Rich Text Format</td>
<td>4/23/2018 3:40 PM</td>
<td>131,137</td>
<td>94%</td>
<td>15,381</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028744_xo_data_1.xml</td>
<td>XML Document</td>
<td>4/23/2018 3:40 PM</td>
<td>78,445</td>
<td>94%</td>
<td>5,416</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028744_xo_data_1.xsl</td>
<td>XSL Stylesheet</td>
<td>4/23/2018 3:40 PM</td>
<td>92,459</td>
<td>94%</td>
<td>5,612</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028744_xo_data_1.xf</td>
<td>FO File</td>
<td>4/23/2018 3:40 PM</td>
<td>249,009</td>
<td>97%</td>
<td>7,680</td>
<td></td>
</tr>
<tr>
<td>xdo_042310_034028744_xo_data_1.xo</td>
<td>OUT File</td>
<td>4/23/2018 3:40 PM</td>
<td>6,374</td>
<td>9%</td>
<td>5574</td>
<td></td>
</tr>
</tbody>
</table>

Xdo.log(Main log file)
xdo....xsl(XSL-FO version of RTF)
Xdo...fo(Temp file created when converting to RTF to XSL-FO)
Debugging XMLP Reports

Create a file named `xdodebug.cfg` and place it under `[PS_HOME]\JRE\Lib]` directory.

- **Windows**
  The file should include following below information:
  LogLevel=STATEMENT
  LogDir=c:\temp (point to an appropriate temporary directory )

- **Unix**
  The file should include following below information:
  LogLevel=STATEMENT
  LogDir=/ds3/ps/dssgrp/tmp (point to an appropriate temporary directory )

3) After Replication remove `xdodebug.cfg` from `[PS_HOME]\JRE\Lib]` directory.
Running XMLP Reports from Command line

- Running XMLP Reports from the command line will help in testing the performance of large reports.

- Testing is done here by Bypassing Peoplecode, Application engine Interface.

- Steps to run the reports using command line
  1. Create a working directory (e.g. C:\psxmlp\comlinetest)
  2. Copy RTF template and XML data file to this directory

Cont’d..
Running XMLP Reports from Command line

3) Set PS_HOME=C:\PT85X

4) Set CLASSPATH as follows

set CLASSPATH=%PS_HOME%\class\pxml.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\xdo56.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\xmlparserv2.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\peoplecode.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\aolj.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\i18nAPI_v3.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\axdoparser.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\bicmn.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\bipres.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\jewt4.jar
set CLASSPATH=%CLASSPATH%;%PS_HOME%\class\share.jar

Cont’d..
Running XMLP Reports from Command line

5) Convert RTF template to XSL format

```
C:\psxmlp\comlinetest > Java -Xmx512m -Xms256m
    com.peoplesoft.pt.xmlpublisher.PTRTFProcessor -genxsl template.rtf
```

6) Report Generation output values (PDF = 2, RTF = 1, HTML = 3, EXCEL = 4)

```
C:\psxmlp\comlinetest > Java -Xmx512m -Xms256m
    com.peoplesoft.pt.xmlpublisher.PTFOProcessor -genoutput template.xsl
    data.xml reportoutput.pdf 2
```
Running XMLP Reports from Command line

5) Convert RTF template to XSL format

```
C:\psxmlp\comlinetest > Java -Xmx512m -Xms256m
com.peoplesoft.pt.xmlpublisher.PTRTFProcessor -genxsl template.rtf
```

6) Report Generation output values (PDF = 2, RTF = 1, HTML = 3, EXCEL = 4)

```
C:\psxmlp\comlinetest > Java -Xmx512m -Xms256m
com.peoplesoft.pt.xmlpublisher.PTFOProcessor -genoutput template.xsl
data.xml reportoutput.pdf 2
```

Please refer GCS Solution on Support Portal DOC ID : 789151.1 (How to Run XMLP Reports from the Command line.)
Performance of Data Source

Choose the right datasource
Performance of Data Source

Choose the right datasource
<table>
<thead>
<tr>
<th>FEATURE</th>
<th>RTF</th>
<th>PDF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom/dynamic output</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Existing PDF Template (government forms)</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Pixel perfect positioning (using Adobe)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Charts</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PDF Output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HTML, Excel and potential other output formats</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Sub-templates</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Runtime parameters</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Translation files</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Higher performance on very large reports (hundreds of mega bytes)</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Output Formulas</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Flexible Field-data mapping (XPath vs. simple name matching)</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
Clean up XML Publisher Meta Data

• To Insure integrity of XML Publisher files run application engine program **PSXPCLEAN**.

• **PSXPCLEAN** program should be run on regularly basis to keep template metadata consistent.

• **PSXPCLEAN** can be run in either in Report mode or Delete mode based on this value.

  PSXPFILECLN_AET.REPORT_ONLY_FLAG=‘Y’

Cont’d..
<table>
<thead>
<tr>
<th>Task</th>
<th>Application Engine</th>
<th>View</th>
<th>Format</th>
<th>Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department Tbl &amp; Departmental</td>
<td>PER506</td>
<td>Web</td>
<td>PDF</td>
<td>Distribution</td>
</tr>
<tr>
<td>Process Scheduler Server Clean</td>
<td>PRCSSRVCCLN</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>Process Scheduler System Purge</td>
<td>PRCSYSPURGE</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>Archive performance data</td>
<td>PSPM_ARCHIVE</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>Recover from Archive abort</td>
<td>PSPM_ARCHREC</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>XML Publisher Archive</td>
<td>PSXPARCHATTR</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>XML Publisher File Cleanup</td>
<td>PSXPCLEAN</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>XML Publisher Purge</td>
<td>PSXPDDELATTR</td>
<td>Web</td>
<td>TXT</td>
<td>Distribution</td>
</tr>
<tr>
<td>Simple COBOL test program.</td>
<td>PTPDBTST</td>
<td>(None)</td>
<td>(None)</td>
<td>Distribution</td>
</tr>
<tr>
<td>PTPDTSST</td>
<td>PTPDTSST</td>
<td>(None)</td>
<td>(None)</td>
<td>Distribution</td>
</tr>
<tr>
<td>PeopleTools SQR Test</td>
<td>PTSQRTST</td>
<td>Web</td>
<td>PDF</td>
<td>Distribution</td>
</tr>
</tbody>
</table>
Implementation Tips

When to Use XML Publisher

XML Publisher provides alternative to:

1. Crystal Reports
   - Close to XML Publisher in functionality
   - Consider using XMLP instead of Crystal for new reports
   - No Windows dependency (unlike Crystal Reports)
   - XML Publisher cannot fully substitute Crystal in 100% of cases

2. nVision
   - Consider XML Publisher instead of nVision tabular layouts
   - Excel is supported as output type

3. SQR
   - Using Application Engine for data logic and XML Publisher for publishing
     - Take advantage of native bursting capabilities
Performance Tuning Tips

Configuration

Setting System Temp Directory

By default, the system-temp-dir property is not set. This property must be set to point to a temp folder on the server to achieve the optimum performance.

<pROPERTY name="system-temp-dir">C:\Temp</PROPERTY>

• Set Optimum Java Heap on Process scheduler and Application Server by default this is not set it uses the System Default.

   <pJAVA VM Options= -Xrs -Dxdo.ConfigFile=%PS_HOME%/appserv/xdo.cfg –Xmx256m –Xms128m>
Performance Tuning Tips

PDF Template

• Choose the right type of Template PDF/RTF, PDF have highest implementation performance.

• Try to create brand new PDF templates.

• Do not reuse the existing PDF template as basis for creating of new one which results in retention of non-visible meta data which may cause performance issues.
Performance Tuning Tips

RTF Template

• Complex Reports that require the RTF Template take greater care when designing the template and the data source.

• RTF Template converted to XSL format behind scene can switch to XSL template for complex templates.

• Run following command for RTF TO XSL conversion.
  C:\psxmlp\comlinetest > Java -Xmx512m -Xms256m com.peoplesoft.pt.xmlpublisher.PTRTFProcessor -genxsl template.rtf

Cont’d..
Performance Tuning Tips

- RTF Template does default sorting of data and may impact performance.
Performance Tuning Tips

- RTF Template does default sorting of data and may impact performance.
Peoplesoft Recommendations

- XML file as Data source
- RTF Template over PDF template
- Define Bursting fields/Search Fields
- Design Data source as close as Actual Report.
- Use Filters in Data source
Tips for Running Large XMLP Reports

• Use XML File as Data source and PDF as template it has highest implementation performance.

• Create two batch processes, one to generate the XML file and one for processing the report.

• Pass the XML file to the Report processing process

• Include Data Generation and Report Processing process in one Process Scheduler Job.
What’s New In PT8.50/PT8.51/PT8.52
What’s New in PT8.50

• Query to XML file capability
• Connected Query as Data source
• Sub reports capability in XMLP Reports
• Email Distribution
• Report Distribution Descriptive names
• Report Definition properties Vs Global properties
• Alternate XML Preview
• Iterative Template Design
• Performance enhancement for Query Datasource
What’s New in PT8.51

- Performance improvement in Connected Query Data Source.
- Debugging Properties for Connected Query at definition Level.
- Run to window capability
- PDF Form Field Combo of Support
- PSXP_Debug Property at the definition level
What’s New in PT8.52

• BI XSLT Mapper
• Rich Text Editor Support
• Query to XML will now contain Hyperlinks
Additional Resources

Hosted & Mobile PeopleBooks - PeopleTools PeopleBooks are available in three formats: Hosted PeopleBooks, PDF’s, and Amazon’s Kindle format. All can be accessed here:

http://www.oracle.com/technetwork/documentation/psftent-090284.html

Doc Home Pages – constantly updated direct links to PeopleBooks, PeopleBook Updates, Release Notes, Installation and Upgrade Guides, and other useful product documentation, all accessible from one My Oracle Support location.

PeopleTools 8.51 Documentation Home Page [ID 1127534.1]
https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1127534.1

Information Portal - locate the documentation, training, and other info needed to help with your implementation process. Customers searching for this information should make this their first online destination.

THANK YOU