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POSSE[®]

Release Notes

**Documentation: Reference Manual
Version 7.3.0**

Release Notes

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Produced: December 2017 in Edmonton, Alberta, Canada

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1 Overview

POSSE Version 7.3.0 helps people manage their work better, and is more secure than ever.

Significant effort has been invested in making the upgrade as seamless as possible. As with all upgrades, planning is the key to success. Please see the *Upgrade Guide* for detailed information on how to plan for a successful upgrade, and for further technical information on the changes in this release.

Several white papers are cited below. All white papers are available on the POSSE User Website: <https://posse.computronix.com>. Please contact your Account Manager if you require access to the site.

2 7.3.0

This section provides an overview of changes introduced in POSSE Version 7.3.0. For changes introduced in prior versions of POSSE, please see the *Release Notes* for those versions.

Security

POSSE now fully supports separation of duties:

- Business & Technical Specialists (Stage configuration): Security is controlled by administrator groups (new).
- Change Management (Marshal): Security is controlled by user administrators in the Marshal application (unchanged).
- Database Administration (POSSEDBA): Access to business data via API can be restricted (new). Access to business data via systems is prohibited (unchanged).
- Business users: Access to data is controlled by configuration (unchanged).
- Business system support:
 - Access to Sheriff and the Process Server Manager is controlled by new built-in access groups (new).
 - Security to cancel system processing in Winchester is controlled by a new built-in access group (new).

You can harden your production installation by completely separating these roles. Please see the *Hardening Your POSSE Installation* white paper for more information. For more information on Stage security, please see the *Stage Administration Best Practices* white paper.

Winchester

New Features

- Several tools have been added to the To Do List to help users manage their work, including pinning, tagging, importance, and delegation. Please see the *POSSE To Do List Management* and *POSSE To Do List Delegation* white papers for more information.

- Winchester now supports a "User Profile" layout, in order to provide users appropriate access to their own data, including delegation setup. This is a configured layout, and exploits the full power of POSSE's dynamic data and security. When configured, the My Profile option on the Winchester user menu now navigates to the User Profile Layout of the logged on user.
- For clients whose internal staff use Outrider, POSSE now supports a phased migration from Outrider to Winchester. This allows you to immediately take full advantage of Winchester's framework, including its To Do List, delegation, user profile, and business menus, and then incrementally configure Winchester presentations for your system. For more information, please see the *Outrider-to-Winchester Migration* white paper and contact your Account Manager.

Usability Enhancements

- The To Do List now remembers the last selected user, and displays configured warnings (PPI 12282).
- A warning is displayed at the top of the process panel when the process is unassigned.
- Several issues around click-sorting data in grids have been addressed. The initial sort order is now displayed via a sort indicator on that column, and if you click-sort a grid on other data, you can now revert to the initial sort by click-sorting on that column.
- Image Display widgets now display image files with correct orientation based on camera Exif Information.

Configuration

- You can now implement complex web service calls in Python via Service API Modules, allowing them to harness the power of POSSE scripting. Additionally, new methods Search() and UniqueSearch() have been added to the Scripting API (on the data area) in order to allow for retrieval of information to be processed by these scripts without writing registered statements.
- Access group configuration has been simplified. In addition, the usage of access groups (for security or assignment) can now be explicitly identified on each one, and Stage will only show access groups configured for the relevant purpose when selecting them.
- There is now Database API to create access groups that are used solely for securing data at run-time ("instance security"). These access groups are local to a POSSE Database. Please see "api.pkg_AccessGroupUpdate" in the *API Reference* for more information.
- The title of the "Instances" feature in Sheriff has been corrected. It is now "Corral Datamarts".

- Images uploaded to POSSE will now have their thumbnails generated with the correct orientation when that information is available. You can also regenerate the thumbnails for your existing documents. Please see the *Upgrade Guide* for more information.
- Upload and download scripts can now be configured on document types. These scripts run during upload or download of the document in run-time applications, and are primarily focused on the following business needs:
 - Creating thumbnails for non-image formats;
 - Injecting and removing macros on download/upload of a Word document;
 - Extracting Exif metadata and storing it in POSSE data.

Please see the *Upgrade Guide* for information regarding application changes in support of this feature.

Please see "Document Scripts" in the *API Reference* for more information on writing upload and download scripts.

Keeping Current

- POSSE now supports Oracle 12c Release 2 (12.2.0.1).
- Windows Server 2016 and Internet Information Services (IIS) 10.0 are now supported by all server applications.

Please see the [Supported Environments](#) ⁹ section for more information.

3 Supported Release Combinations

This section documents the supported versions of each component.

Applications and Supported Database Versions

Note: The applications for POSSE Version 7.3.0 client may be supported with later database versions. Please check the [Databases and Supported Application Versions](#) topic for the later version.

Harness

The Harness Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Marshal

The Marshal Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
Marshal	7.3.0	7.3.0
POSSE	6.2.1	7.3.0

Outrider .NET

Outrider .NET Version 7.3.0 is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

POSSE

The POSSE Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

POSSE Application Server

POSSE Application Server Version 7.3.0 is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Process Server

The Process Server Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Process Server Manager

The Process Server Manager Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Remote Synch Server

The Remote Synch Server Version 7.3.0 is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Sheriff

The Sheriff Version 7.3.0 client is supported when running with the following database versions:

Database Type	Min. Database Version	Max. Database Version
POSSE	7.3.0	7.3.0

Stage

The Stage Version 7.3.0 client is supported when running with the following database

versions:

Database Type	Min. Database Version	Max. Database Version
Marshal	7.3.0	7.3.0
POSSE	7.3.0	7.3.0

Databases and Supported Application Versions

Marshal Database

The Version 7.3.0 Marshal Database supports the following versions of Marshal and Stage usage:

Application	Min. Version	Max. Version
Marshal	7.3.0	7.3.0

Note: Version 7.3.0 Marshal Database may support later Marshal and Stage versions. Please check the [Applications and Supported Database Versions](#) ⁵¹ topic for the later Marshal and/or Stage version.

POSSE Database

The Version 7.3.0 POSSE Database supports the following application versions:

Application	Min. Version	Max. Version
Harness	7.3.0	7.3.0
Marshal	7.3.0	7.3.0
Outrider .NET	7.3.0	7.3.0
POSSE	7.3.0	7.3.0
POSSE Application Server	7.3.0	7.3.0
Process Server	7.3.0	7.3.0
Process Server Manager	7.3.0	7.3.0
Remote Synch	7.3.0	7.3.0
Sheriff	7.3.0	7.3.0
Stage	7.3.0	7.3.0

Note: Version 7.3.0 POSSE database may support later application versions. Please check the [Applications and Supported Database Versions](#) ⁵¹ topic for the later application version.

Remote Synch and Supported Remote Application Versions

The Version 7.3.0 Remote Synch Server supports the following versions of the Remote Applications:

Application	Min.Application Version	Max. Application Version
Ranger	6.2.4	7.1.5

POSSEAdmin and Outrider .NET Versions

POSSEAdmin 7.3.0 supports the following versions of Outrider .NET:

Application	Min. POSSEAdmin Version	Max. POSSEAdmin Version
Outrider	7.3.0	7.3.0

4 Supported Environments

Unless otherwise noted:

- References to Windows Server 2008 R2 include both the GA release and Service Pack 1 (SP1).
- References to Windows 8 include both 8 and 8.1.

Servers

Database Server

Oracle:

11.2.0.4	Standard One, Standard, or Enterprise Edition
12.1.0.2	Standard Edition 2 (SE2) or Enterprise Edition
12.2.0.1	Standard Edition 2 (SE2) or Enterprise Edition

Platforms:

Intel	Windows Server	as per Oracle's requirements. Note: Both 32 and 64 bit Windows Servers are supported.
	Linux	as per Oracle's requirements Note: No support tools are currently provided for this platform. This means that installation and upgrades will have to be done from a Windows-based system.
Sun	Solaris	as per Oracle's requirements Note: Although Solaris is supported, no testing has been done on this platform and native Solaris support tools are currently not provided. This means that installation and upgrades will have to be done from a Windows-based system.
HP	HP/UX	as per Oracle's requirements Note: Although HP/UX is supported, no testing has been done on this platform and native HP/UX support tools are currently not provided. This means that installation and

upgrades will have to be done from a Windows-based system.

Notes:

- The "optimizer_secure_view_merging" parameter should be set to "false" in order to work-around an Oracle bug that was only partially fixed in patch set 11.2.0.3. This problem has not been corrected in patch set 11.2.0.4. See the FAQ [Outrider and Posse applications are slow after upgrading to Oracle 11g patch](#) for more information.

Outrider

Platforms:

Intel	Windows Server 2008	64-bit Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2008 R2	64-bit Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2016	Standard, or DataCenter at least 6 GB memory

IIS

7.x, 8.x, 10.x

.NET Framework

4.5 The Extended flavor is required.

Oracle Client:

11.2.0.4

12.1.0.2

12.2.0.1

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.

POSSEAdmin

Platforms:

Intel	Windows Server 2008	64-bit Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2008 R2	64-bit Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2016	Standard, or DataCenter at least 6 GB memory

IIS

7.x, 8.x, 10.x

.NET Framework

4.5 The Extended flavor is required.

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.

Process Server

Platforms:

Intel	Windows Server 2008	32-bit Standard, Enterprise, or DataCenter at least 1 GB memory
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Windows Server 2008	64-bit Standard, Enterprise, or DataCenter at least 2 GB memory and 32-bit Oracle Client software
Windows Server 2008 R2	64-bit Standard, Enterprise, or DataCenter at least 2 GB memory and 32-bit Oracle Client software
Windows Server 2012	Foundation, Essentials, Standard or DataCenter at least 4 GB memory and 32-bit Oracle Client software
Windows Server 2012 R2	Foundation, Essentials, Standard or DataCenter at least 4 GB memory and 32-bit Oracle Client software
Windows Server 2016	Standard or DataCenter at least 4 GB memory and 32-bit Oracle Client software
Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory and 32-bit Oracle Client software
Windows 8	32-bit Professional or Enterprise at least 2 GB memory
Windows 8	64-bit Professional or Enterprise at least 4 GB memory and 32-bit Oracle Client software
Windows 10	32-bit Professional or Enterprise at least 2 GB memory
Windows 10	64-bit Professional or Enterprise at least 4 GB memory and 32-bit Oracle Client software

Oracle Client:

11.2.0.4

Remote Synchronization Web Service Web Server

Platforms:

Intel	Windows Server 2008	64-bit Web, Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2008 R2	64-bit Web, Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 6 GB memory
	Windows Server 2016	Standard, or DataCenter at least 6 GB memory

IIS:

7.x, 8.x, 10.x

.NET Framework

4.5 The Extended flavor is required.

Oracle Client:

11.2.0.4

12.1.0.2

12.2.0.1

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.

POSSE Application Server

Platforms:

Intel	Windows Server 2008 R2	64-bit Standard, Enterprise, or DataCenter at least 16 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 16 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 16 GB memory
	Windows Server 2016	Standard, or DataCenter at least 16 GB memory

Oracle Client:

11.2.0.4

12.1.0.2

12.2.0.1

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.
- The recommended server specifications depend on the number of supported users. Please refer to the *Winchester Performance and Scalability* white paper (available from your Account Manager) for details.

Winchester**Platforms:**

Intel	Windows Server 2008 R2	64-bit Web, Standard, Enterprise, or DataCenter at least 8 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 8 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 8 GB memory

	Windows Server 2016	Standard, or DataCenter at least 8 GB memory
IIS		
	7.x, 8.x, 10.x	
.NET Framework		
	4.5	The Extended flavor is required.

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.
- The recommended server specifications depend on the number of supported users. Please refer to the *Winchester Performance and Scalability* white paper (available from your Account Manager) for details.

WinchesterAdmin**Platforms:**

Intel	Windows Server 2008 R2	64-bit Web, Standard, Enterprise, or DataCenter at least 8 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 8 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 8 GB memory
	Windows Server 2016	Standard, or DataCenter at least 8 GB memory
IIS		
	7.x, 8.x, 10.x	
.NET Framework		
	4.5	The Extended flavor is required.

Notes:

- 64-bit versions of Windows 7 Professional/Enterprise/Ultimate, Windows 8 Professional/Enterprise, and Windows 10 Professional/Enterprise are supported for developers to do local development.

Database Tools**Platforms:**

Intel	Windows 7	64-bit Business, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	64-bit Professional or Enterprise at least 4 GB memory
	Windows 10	64-bit Professional or Enterprise at least 4 GB memory
	Windows Server 2008 R2	Standard, Enterprise, or DataCenter at least 4 GB memory
	Windows Server 2012	Foundation, Essentials, Standard, or DataCenter at least 4 GB memory
	Windows Server 2012 R2	Foundation, Essentials, Standard, or DataCenter at least 4 GB memory
	Windows Server 2016	Standard, or DataCenter at least 4 GB memory

Oracle Client:

11.2.0.4
12.1.0.2
12.2.0.1

Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

POSSE Common Components

The following versions of the POSSE Common Components are supported:

- Version 7.1.0
Windows 7 (32 and 64-bit), Windows 8 (32 and 64-bit), Windows 10 (32 and 64-bit), Windows Server 2008 R2 (64-bit), Windows Server 2012 & 2012 R2 and Windows Server 2016.
- Version 6.2.3
Windows 7 (32 and 64-bit), Windows Server 2008 (32 and 64-bit) and Windows Server 2008 R2 (64-bit).

Clients

Outrider

The output produced by Outrider is designed to be compatible with the following browsers:

- the current versions of Chrome and Firefox on Windows and Mac OS/X
- the current version of Microsoft Edge on Windows
- Microsoft Internet Explorer 5.5 and above
- Safari 3 and above

The client requires JavaScript to be enabled and the version of JavaScript to be at least 1.1.

Depending on your target audience (Web, Intranet, Extranet) and intended browser support, you may be able to create simpler programs that only support one browser.

Marshal

Platforms:

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
	Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	32-bit Professional or Enterprise at least 2 GB memory

Windows 8	64-bit Professional or Enterprise at least 4 GB of memory
Windows 10	32-bit Professional or Enterprise at least 2 GB memory
Windows 10	64-bit Professional or Enterprise at least 4 GB of memory

Oracle Client:

11.2.0.4
12.1.0.2
12.2.0.1

Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

POSSE**Platforms:**

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
	Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	32-bit Professional or Enterprise at least 2 GB memory
	Windows 8	64-bit Professional or Enterprise at least 4 GB memory
	Windows 10	32-bit Professional or Enterprise at least 2 GB memory
	Windows 10	64-bit Professional or Enterprise at least 4 GB memory

Oracle Client:

11.2.0.3
11.2.0.4

12.1.0.2

12.2.0.1

Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

Third Party Software:

Adobe Acrobat	Reader for PDF files: 4+	
ArcGIS	9.3.1, 10.0	
GeoMedia	5.2	
MapGuide	5+	
Teller for POSSE	5.4 (Lite Edition included with POSSE)	Requires .NET Framework 4

POSSEAdmin

The following browsers are supported by POSSEAdmin:

- the current versions of Chrome and Firefox on Windows and Mac OS/X
- the current version of Microsoft Edge on Windows
- the current version of Safari on Mac OS/X
- Microsoft Internet Explorer 6 and above

The client requires JavaScript to be enabled.

Other browsers on other platforms (including tablets) have not been tested.

Process Server Manager**Platforms:**

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
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Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
Windows 8	32-bit Professional or Enterprise at least 2 GB memory
Windows 8	64-bit Professional or Enterprise at least 4 GB memory
Windows 10	32-bit Professional or Enterprise at least 2 GB memory
Windows 10	64-bit Professional or Enterprise at least 4 GB memory

Oracle Client:

11.2.0.4
12.1.0.2
12.2.0.1

Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

Ranger

Note that Ranger was last provided as part of the POSSE Distribution Package in POSSE Version 7.1.5.

Platforms:

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
	Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	32-bit Professional or Enterprise at least 2 GB memory
	Windows 8	64-bit Professional or Enterprise at least 4 GB memory
	Windows 10	32-bit Professional or Enterprise

	at least 2 GB memory
Windows 10	64-bit Professional or Enterprise at least 4 GB memory

Note: If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

Third Party Software:

Sybase ASA Version 7.0	As provided by POSSE Support.
Abode Acrobat	Reader for .pdf files: 4+

Sheriff

Platforms:

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
	Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	32-bit Professional or Enterprise at least 2 GB memory
	Windows 8	64-bit Professional or Enterprise at least 4 GB memory
	Windows 10	32-bit Professional or Enterprise at least 2 GB memory
	Windows 10	64-bit Professional or Enterprise at least 4 GB memory

Oracle Client:

None	This application uses the Oracle Managed Client. Therefore, only the control files required for SQL*Net connectivity are required.
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Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the

operating system below the minimum requirements.

Third Party Software:

Microsoft Requires .NET Frameworks 3.5 *and* 4.5

Stage

Platforms:

Intel	Windows 7	32-bit Professional, Enterprise, or Ultimate at least 2 GB memory
	Windows 7	64-bit Professional, Enterprise, or Ultimate at least 4 GB memory
	Windows 8	32-bit Professional or Enterprise at least 2 GB memory
	Windows 8	64-bit Professional or Enterprise at least 4 GB memory
	Windows 10	32-bit Professional or Enterprise at least 2 GB memory
	Windows 10	64-bit Professional or Enterprise at least 4 GB memory

Oracle Client:

11.2.0.4
12.1.0.2
12.2.0.1

Notes:

- If you have an integrated video card, this may reduce the amount of memory available to the operating system below the minimum requirements.

Third Party Software:

InfoMaker 11.2 Build 8407

Winchester & WinchesterAdmin

The following browsers are supported by Winchester and WinchesterAdmin:

- the current versions of Chrome and Firefox on Windows and Mac OS/X
- the current version of Microsoft Edge on Windows
- the current version of Safari on iOS and Mac OS/X
- Microsoft Internet Explorer 11

The client requires JavaScript to be enabled.

Other browsers on other platforms (including tablets) have not been tested.

5 Deprecations

The following lists the deprecations in the POSSE Suite. For more information on the deprecation process, please see the *POSSE Deprecation Process* white paper.

Note that all white papers referenced are available on the POSSE User Website.

Modules

- The Client/Server module has been deprecated in favor of the Winchester module. This has resulted in the deprecation in a number of features and API that were present to support the Client/Server module. The Client/Server module will be supported until July 31, 2019. For more information, please see the *POSSE 7 Upgrade & Port* and *POSSE Client-Server Transition* white papers on the POSSE User Website.
- The Ranger module, including its Database API and the Ranger Installations window in Sheriff, has been deprecated in favor of Mobile Add-Ons. Ranger will be supported until July 31, 2019. For more information, please contact your Account Manager.
- ClerkIM (previously deployed as part of Winchester, Outrider, and Process Server) and the POSSE Common Components are deprecated in favor of POSSE XtraReports.
- Note: InfoMaker Reports which are configured as "Print on Creation" must be converted to Workflow Reports before the configuration for the POSSE system (which is used by the Client-Server module) can be safely removed. This applies even if those InfoMaker Reports are not configured for the POSSE system. "Print on Creation" is configured on InfoMaker Reports when they are attached to component types.

Features

Where possible, access points to deprecated features are marked with a "(x)" suffix in Stage. For example, the menu item and toolbar button for Criteria Types now appear as "Criteria Types (x)"; the suffix is a reminder of its deprecated status. If a deprecated feature has no configuration associated with it (that is, the feature has never been used, or all of the configuration has been destroyed), it will no longer appear in Stage.

We recommend that once the deprecated feature(s) are no longer in use at your site, you remove all configuration for that deprecated feature (e.g. delete all the criteria types that are configured). At that point, the deprecated feature's access points will no longer appear in Stage.

Feature	Announce Date	End of Official	Replacement
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	(Version)	Support	
OLE documents	Sept. 6, 2006 (6.1.8)	Apr. 30, 2015	Conversion Utility (please contact POSSE Support)
Reports stored as .psr files	Sept. 6, 2006 (6.1.8)	Apr. 30, 2015	Conversion Utility (please contact POSSE Support)
Show All Tabs If New property on Tab Controls in the Posse Environment	Sept. 6, 2006 (6.1.8)	Apr. 30, 2015	Either set an Initial Value on the column that is used for the Visible property for the Tabs inside of the Tab Control, or in the expression for the Visible property, check to see if the object is new and if new, always return True
XML Name property on Outrider presentations	Sept. 6, 2006 (6.1.8)	Apr. 30, 2015	The "Name" property
Painting the UserId system dynamic detail on User Log panes	Dec. 12, 2007 (6.1.10)	Apr. 30, 2015	Use either the "Name" or "ShortName" dynamic detail from the User Type
OracleLogonId system dynamic detail on the User Type	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	ShortName or AuthenticationName
Destructor event	Aug. 10, 2011 (6.3.0)	Apr. 30, 2015	Deleting event
Edit Masks on Date and Numeric Dynamic Details	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	Change the data type of the Dynamic Detail to "String"
Edit Masks: Special Characters 0, !, and ^	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	None
The POSSE system and all its presentation configuration	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>POSSE Client-Server Transition</i> and <i>POSSE 7 Upgrade & Port</i> white papers
Ranger systems and all their presentation configuration	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Acquisition Method Sets on Document Types	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>POSSE Client-Server Transition</i> white paper and the "Document creation using Acquisition Methods" section of the <i>Port Project Planning</i> document (available from Computronix)
Argument DataWindows for Reports	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Report Criteria layouts in Winchester
Bitmap Name on Object and Document	Jul. 31, 2014	Jul. 31, 2019	Icon

Types	(7.1.4)		
Built-In Address Maintenance, including Street Names window in Sheriff	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Built-In GIS Map Configuration, including related Database Constants maintained in Sheriff	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Mapping</i> white paper
Configuration Tables: Acquisition Methods	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>POSSE Client-Server Transition</i> white paper and the "Document creation using Acquisition Methods" section of the <i>Port Project Planning</i> document (available from Computronix)
Configuration Tables: Area Symbols	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Mapping</i> white paper
Configuration Tables: Custom Display Styles	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Widget configuration
Configuration Tables: Disciplines	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Dynamic Detail based on a List Domain
Configuration Tables: Extensions - Description, Save Only, and Command	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; these options supported document management in the deprecated Client-Server and Ranger modules, and are thus deprecated
Configuration Tables: Inspection Codes	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Configuration Tables: Line Symbols	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Mapping</i> white paper
Configuration Tables: Map Sizes	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Mapping</i> white paper
Configuration Tables: Note Types - Clauses	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Configured object type in Winchester
Configuration Tables: Point Symbols	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Mapping</i> white paper
Configuration Tables: Procedures - Executed by	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; the only non-deprecated value is "Database"
Configuration Tables: Street Post-Directions	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Configuration Tables: Street Pre-Directions	Jul. 31, 2014	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white

	(7.1.4)		paper
Configuration Tables: Street Types	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Configuration Tables: Validation Rules	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Criteria Types	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Search and Report Criteria layouts in Winchester
Deficiency Types, including XML elements for manipulating them using ProcessXML()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Document Types: BitmapName, LastUpdateByUserOracleLogon system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Document Types: HouseNumber, HouseSuffix, StreetName, StreetNameId, Suite system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Effective-Dated Objects	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Effective-Dated Objects</i> white paper
Embedded Reports on Tabs	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Embedded Reports</i> white paper
Expansions	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Hierarchy Grid widgets in Winchester; Lookup Dynamic Details with a value handler of "Find if any..." for searching; see the "Expansions exist" section of the <i>Port Project Planning</i> document (available from Computronix)
"First User To Open and Update" assignment type on Job Type Process Types	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Claim button in Winchester
Job Type Folders	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Job Types: Job Color	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Icon

Job Types: CreatedByUserOracleLogon, LastUpdateByUserOracleLogon system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Job Types: HouseNumber, HouseSuffix, StreetName, StreetNameId, Suite system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Merge Objects	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Merging Objects</i> white paper
Notifications Tabs on Processes, including related Database Constants maintained in Sheriff	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Notifications</i> white paper
Object Maintenance Blocks, including the "Object Use" on Job Type Process Types	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
Object Types: BitmapName, LastUpdateByOracleLogon system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Object Types: EffectiveEndDate, EffectiveStartDate system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Effective-Dated Objects</i> white paper
Object Types: HouseNumber, HouseSuffix, StreetName, StreetNameId, Suite system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Process Types: CreatedByUserOracleLogon, LastUpdateByUserOracleLogon, ScheduledByUserOracleLogon system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Process Types: HouseNumber, HouseSuffix, StreetName, StreetNameId, Suite system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Process Types: ObjectMaintenanceBlockId system dynamic detail	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
Toolbox procedure "Copy job addresses to object(s)" (pkg_Copy.CopyJobAddressToObject)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Toolbox procedure "Copy new block objects to job" (pkg_Copy.CopyNewBlockObjectsToJob)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
Toolbox procedure "Destroy street names" (pkg_Copy.DestroyStreetNames)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Toolbox procedure "Duplicate object into	Jul. 31, 2014	Jul. 31, 2019	See the <i>Business Alternatives for Object</i>

block" (pkg_Copy.DuplicateObjectIntoBlock)	(7.1.4)		<i>Maintenance Blocks</i> white paper
Toolbox procedure "Duplicate related into block" (pkg_Copy.DuplicateRelatedIntoBlock)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
Toolbox procedure "Maintain address" (pkg_Copy.MaintainAddress)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
Toolbox procedure "Maintain street names" (pkg_Copy.MaintainStreetNames)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for Addressing</i> white paper
All 11 Toolbox procedures in pkg_Ranger	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Toolbox procedure "Create a sub-job of the specified type" (pkg_Workflow.CreateSubJob)	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Set the business relationship
User Log Types, the "Record User Log" security privilege, and the XML elements for manipulating user logs via ProcessXML()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Design Pattern for User Logs</i> white paper
User-Initiated Save of Report as Related Document	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the "Component Types with operational reports where the saved report doesn't show up on the presentation" section of the <i>Port Project Planning</i> document (available from Computronix)
User-Managed Instance Security	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the "Object instance security panes" section of the <i>Port Project Planning</i> document (available from Computronix)
User Type: BitmapName, DefaultAccessGroupID, IdleMinutes, LastUpdateByUserOracleLog on system dynamic details	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
Weekly Data Entry	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Weekly Data Entry</i> white paper
Setting ParentJobID on jobs	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Set the business relationship
Unconstrained Dynamic Details (those whose data size and scale have not been specified)	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Set the data size and scale to correspond to the values required by the business

InfoMaker Reports	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Report Registrations
InfoMaker Report Folders	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	None
InfoMaker Report Templates	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	None
InfoMaker Reports on component types	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Operational Reports
InfoMaker Report lockdown on component types	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	None
InfoMaker Report property on Report Link and Text with Report link widgets in Winchester	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Report Registration property
InfoMaker Report panes in Outrider	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Management or Operational Report panes
"Print a standard letter" registered procedure	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Workflow Reports & Scripts; note that upload scripts on the related document type are not supported and will be ignored
"Report Printing Options" Dynamic Details ("Magic columns")	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Workflow Scripts; note that workflow scripts may still consume the values of these dynamic details
Default User Management Scheme database constant	Dec. 14, 2016 (7.2.1)	Jul. 31, 2019	None; Explicitly specify the user management scheme when creating new users in code
External File Number Wildcard database constant	Dec. 14, 2016 (7.2.1)	Jul. 31, 2019	None; see documentation for pkg_ObjectSearch.SearchByJob() in the <i>API Reference</i> regarding impact
EncryptPassword parameter in control files. This affects the control files for the POSSE Application Server, Outrider, the POSSE XtraReports Service, POSSE Admin, and Winchester Admin	Dec. 14, 2016 (7.2.1)	Dec. 13, 2019	The EncryptionLevel parameter; see the <i>Deployment Reference</i> for more information

API

Database API Packages

The following packages/procedures have been deprecated:

Package.Procedure	Announce Date (Version)	End of Official Support	Replacement
pkg_LogicalTransactionUpdate StartTransaction()	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	None required; transactions automatically start when needed
pkg_ObjectQuery.CountRelationships(), CountValue(), MaxDateValue(), MaxNumericValue(), MaxValue(), MinDateValue(), MinNumericValue(), MinValue(), RelatedObjectValue(), SumValue()	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	Lookups
pkg_ObjectQuery.RelatedObjects() using RelationshipDefId and EndPoint	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	pkg_ObjectQuery.RelatedObjects() using EndPointId
pkg_ObjectQuery.RelatedObjects() using RelationshipDefIds and EndPoints	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	pkg_ObjectQuery.RelatedObjects() using EndPointIds
pkg_RelationshipUpdate.New() passing RelationshipDefId and EndPoint	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	pkg_RelationshipUpdate.New() passing EndPointId
pkg_RelationshipUpdate.New() passing RelationshipDefId, but implying the EndPoint from the FromObjectId and ToObjectId	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	pkg_RelationshipUpdate.New() passing EndPointId
pkg_Definition.udt_AccessGroup, udt_Block, udt_BlockObject, udt_Class, udt_ColumnChange, udt_ColumnDef, udt_Document, udt_Domain, udt_EndPoint, udt_EndPointList, udt_IndexDef, udt_Job, udt_JobType, udt_ListValue, udt_LogicalTransaction, udt_NoteType, udt_Object, udt_ObjectDef, udt_ObjectDefType, udt_Privilege, udt_Procedure, udt_Process, udt_ProcessType, udt_Project, udt_Relationship, udt_RelationshipDef, udt_RelationshipName, udt_Sequence, udt_Status, udt_StreetName, udt_StreetPostDirection, udt_StreetPreDirection, udt_StreetType	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	pkg_Definition.udt_Id
pkg_Definition.udt_ColumnDefList, udt_ListValues, udt_ObjectDefList, udt_ObjectList, udt_RelationshipDefList	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	pkg_Definition.udt_IdList
pkg_Definition.udt_RawQueryValueList	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	pkg_Definition.udt_StringList
pkg_ObjectDefQuery.IdForName	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	pkg_ConfigQuery.ObjectDefIdForName
pkg_Definition.udt_StaffMember	Jul. 7, 2010	Apr. 30, 2015	pkg_Definition.udt_Name

	(6.2.4)		
pkg_ProcessUpdate.Assign() passing OracleLogonId (AuthenticationName)	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	pkg_ProcessUpdate.Assign() passing UserId
pkg_ProcessUpdate.Unassign() passing OracleLogonId (AuthenticationName)	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	pkg_ProcessUpdate.Unassign() passing UserId
pkg_SecurityQuery.EffectiveUser()	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	pkg_SecurityQuery.EffectiveUserId()
pkg_UserUpdate.New() passing OracleLogonId	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	pkg_UserUpdate.New() passing ShortName and AuthenticationName
pkg_AuditQuery.BusinessKey()	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	None; the title of a deleted object can be retrieved using api.DeletedObjectsAudit
pkg_SessionControl.AttachSession() passing SessionId	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	pkg_SessionControl.AttachSession() passing SessionToken
pkg_AddressQuery	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	pkg_ColumnQuery.Value(ObjectId, 'Address')
pkg_Definition.udt_HouseNumber, udt_HouseSuffix, udt_Suite	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update configured objects; see the <i>Design Pattern for Addressing</i> white paper
pkg_AddressUpdate, pkg_StreetNameUpdate, pkg_ObjectUpdate.GrantPrivilege() or RevokePrivilege() with the 'Modify Address' privilege	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update configured objects; see the <i>Design Pattern for Addressing</i> white paper
pkg_BlockColumnQuery, pkg_BlockColumnUpdate, pkg_BlockObjectAddressUpdate, pkg_BlockObjectUpdate, pkg_BlockRelationshipUpdate, pkg_BlockUpdate	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update configured objects; see the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
pkg_ColumnQuery, pkg_ColumnUpdate, pkg_ObjectQuery, pkg_ObjectUpdate, pkg_RelationshipUpdate, pkg_Search, pkg_SimpleSearch: AsOfDate parameter on all procedures	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Effective-Dated Objects</i> white paper
pkg_JobUpdate: New() and Modify() passing a_ParentJob	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Set the business relationship
pkg_ObjectQuery.AsOfDates()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Effective-Dated Objects</i> white paper
pkg_ObjectSearch.FilterObjects() passing AsOfDate range	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Effective-Dated Objects</i> white paper

pkg_ObjectSearch.SearchByAddress()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use api.pkg_Search to search for configured objects and relate back; see the <i>Design Pattern for Addressing</i> white paper
pkg_ObjectSearch: SearchByDocuments() and SearchByObjects()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	pkg_Search; these methods rely on Expansions, which are deprecated
pkg_ObjectUpdate.CorrectDateRange()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update dynamic details on configured objects; see the <i>Business Alternatives for Effective-Dated Objects</i> white paper
pkg_ObjectUpdate.Merge(), pkg_ObjectUpdate.GrantPrivilege() or RevokePrivilege() with the "Merge" privilege	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update and delete objects; see the <i>Design Pattern for Merging Objects</i> white paper
pkg_Ranger	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
pkg_RelationshipUpdate.CorrectDateRange()	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update dynamic details on configured objects; see the <i>Business Alternatives for Effective-Dated Objects</i> white paper
pkg_UserLogUpdate	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update configured objects; see the <i>Design Pattern for User Logs</i> white paper
pkg_AuditQuery	Sep. 1, 2015 (7.2.0)	Jul. 31, 2018	None; the title of a deleted object can be retrieved using api.DeletedObjectsAudit
pkg_AuditPurge: PurgeAccessGroup(), PurgeEndPoint(), PurgeUserManagementScheme()	Dec. 14, 2016 (7.2.1)	Dec. 13, 2019	None; deletion of audit happens automatically when configuration is deleted
pkg_ObjectSearch.SearchByJob() - "External File Number Wildcard" database constant	Dec. 14, 2016 (7.2.1)	Jul. 31, 2019	For a wildcard search on External File Number, append a '%' sign to the value passed for the a_ExternalFileNum parameter in the calling code; see the <i>API Reference</i> for more information

Database API Views

The following views/columns have been deprecated:

View: Column	Announce Date (Version)	End of Official Support	Replacement
ColumnDefs: IsCalculated, IsCompletelyEarlyBound columns	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	None; IsCalculated is always 'N', and IsCompletelyEarlyBound is always 'Y'
Domains: DisplayType, FixedValues, IsCalculated columns	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	None; the first two are always null, and IsCalculated is always 'N'
LetterOwners	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	Query view on configured object; see the <i>Design Pattern for Notifications</i> white paper
ProcessTypes.Active	Sep. 5, 2003 (5.4.7)	Apr. 30, 2015	None
Disciplines	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Query view on configured object, if a user-definable list is desired
Jobs.JobStatus	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Join to api.Statuses via Jobs.StatusId to get Tag
ProcessOutcomes: JobTypeId, ProcessTypeId columns	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Join to JobTypeProcessTypes via JobTypeProcessTypeId
ProcessTypes: DisciplineId, Inspection columns	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Configure dynamic details; use query view
RelationshipDefs.ToEndPoint	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	ToEndPointId
Relationships.RelationshipDefId	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Join to EndPoints via EndPointId to get RelationshipDefId
Relationships.ToEndPoint	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Relationships.ToEndPointId
TabColumns	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	PaneColumns
Tabs	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Panes
Users.IsRangerUser	Sep. 6, 2006 (6.1.8)	Apr. 30, 2015	Row with UserId in Installations view
Users.OracleLogonId	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	ShortName for display; AuthenticationName for the name used in logging on
Processes.CreatedBy	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	Processes.CreatedByUserId

Processes.CompletedBy	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	Processes.CompletedByUserId
Jobs.CreatedBy	Jul. 7, 2010 (6.2.4)	Apr. 30, 2015	Jobs.CreatedByUserId
DeletedObjectsAudit.BusinessKey	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	DeletedObjectsAudit.Title
EndPoints.RelationshipNameId	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	EndPoints.Label
IndexDefs.Active	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	Indexes are always active
KeywordSynonyms	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	None (will always have no rows)
NonKeywords	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	None (will always have no rows)
RelationshipDefs.FromRelationshipNameId	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	RelationshipDefs.FromLabel
RelationshipDefs.ToRelationshipNameId	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	RelationshipDefs.ToLabel
RelationshipNames	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	None (use Label of associated table)
BlockObjectAddresses, BlockObjects, BlockRelationships, Processes.ObjectMaintenanceBlockId, JobTypeProcessTypes.ObjectMaintenanceBl ockDefId	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to update configured objects; see the <i>Business Alternatives for Object Maintenance Blocks</i> white paper
Clauses	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use query view of configured object to access Winchester clauses
CodeViolations, CodeViolationsAudit, Deficiencies, DownloadLog, Installations, InstalledObjects, RangerUserObjects, UploadLog	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use query views of configured objects; note that Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which is intended to replace the Ranger module; please contact your account manager to discuss using this application
ColumnDefs.EffectiveDated, ObjectDefs.EffectiveDated, RelationshipDefs.EffectiveDated	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; see the <i>Business Alternatives for Effective-Dated Objects</i> white paper
CorralTables.NameForEffectiveStartDate, CorralTables.NameForEffectiveEndDate, Objects.EffectiveStartDate, Objects.EffectiveEndDate,	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Map standard dynamic details to the configured objects; see the <i>Business Alternatives for Effective-Dated Objects</i> white paper

TemporaryObjectLists.EffectiveStartDate, TemporaryObjectLists.EffectiveEndDate, TemporaryRelationshipLists .EffectiveStartDate, TemporaryRelationshipLists .EffectiveEndDate			
Domains: Height, Width, AutoSelect, AutoHScroll, AutoVScroll, HScrollbar, VScrollbar, Justification, DisplayFormat columns	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; these were provided in support of Display Styles, which were in support of Client-Server and are thus deprecated
JobTypes: Color, IsJobType, ParentJobTypeId columns	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
ListWindowObjects	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	See the <i>Business Alternatives for Search Presentation Reports</i> white paper
ObjectAddresses, ObjectAddressesAudit, StreetNames, StreetPostDirections, StreetPreDirections, StreetTypes	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to access configured objects; see the <i>Design Pattern for Addressing</i> white paper
ObjectColumnDataEffDatedAudit	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	ObjectColumnDataAudit (since objects and columns will not use built-in effective dating)
ObjectDefs, TemporaryRelationshipLists: BitmapName column	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None
ObjectEffectiveDatesAudit	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; objects will not use built-in effective dating
ObjectsAudit: CreatingProcessId, PossibleDeficiencyId, ReferencedObjectId columns	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to access the audit of configured objects
Users.IdleMinutes	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	None; the Idle Minutes system column was in support of Client-Server, and is thus deprecated
UserLogs	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to access configured objects; see the <i>Design Pattern for User Logs</i> white paper
AuditReport	Sep. 1, 2015 (7.2.0)	Jul. 31, 2018	None
Notes.Text (LONG column)	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Notes.NoteText (CLOB column)
ScheduledItems.Arguments (LONG column)	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	ScheduledItems.ItemArguments (CLOB column)
Domains.ParentDomainId	Dec. 14, 2016 (7.2.1)	Dec. 13, 2019	None; ParentDomainId has not been used by POSSE

AccessGroupFolders	Dec. 20, 2017 (7.3.0)	Dec. 20, 2020	AccessGroups.BusinessArea
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API Behavior Changes

- As of the introduction of Document Management Schemes (version 6.1.8): on the DocumentRevisions view, CompressedLength, UncompressedLength, and Value will only be filled in for internally-stored documents. If a Document Management Scheme was used, these columns will be null.

Outrider

Feature	Announce Date (Version)	End of Official Support	Replacement
IOutriderNet	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	IOutriderNet2
CreateReport(): Passing the name of an InfoMaker Report	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Pass the name of a Report Registration
CreateObjectReport(): Passing the name of an InfoMaker Report	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Pass the name of a Report Registration

posseglobal.js API changes:

The following additional API has been added to posseglobal.js to accommodate validation functionality required by ASPX pages:

function hooks PosseNotifyCoordinatedLookupChanged(elements),

PosseSubmitCustomValidate(), and PosseOnSubmitCustomValidate(), which allow for additional custom validation to be scripted.

global variable posseValidationFailed, which is set to true when validation of a field fails.

posseReturn which is set in {Script} for the Round Trip Widget, indicating whether the script ran successfully.

You should update your pages to use the new API and remove the API breaks from posseglobal.js. See the *Outrider Reference* for more information.

Python Scripting API

Item	Announce Date (Version)	End of Official Support	Replacement
InlineIf()	Dec. 12, 2007 (6.1.10)	Apr. 30, 2015	Python Function Body expression with "if" statement
endPoint.relationshipName	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	endPoint.label
PrintPdfs() (run from the Process Server)	Aug. 23, 2013 (7.1.0)	Aug. 23, 2016	PrintRevisions
context object in Winchester Python Scripts, Python Expressions, and Python Function Body Expressions	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	Local variables injected into the script or expression
dataArea.QueueBusinessErrorForColumn(), QueueBusinessErrorForEndPoint()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object.QueueBusinessErrorForColumn(), QueueBusinessErrorForEndPoint()
object.GetColumnValue(), GetColumnValueByName(), GetColumnValues(), SetColumnValue(), and SetColumnValueByName()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object[columnDefOrNameOrId]
object.GetColumnValues()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object[columnDefOrNameOrId1] + object [columnDefOrNameOrId2] + ...
object.GetRelatedObjects()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object.related[endpointOrNameOrId]; if more than one EndPoint was being passed in, use object.related[endpointOrNameOrId1] + object.related[endpointOrNameOrId2] + ...
object.GetRelationships()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object.relationships[endpointOrNameOrId]; if more than one EndPoint was being passed in, use object.relationships [endpointOrNameOrId1] + object.relationships[endpointOrNameOrId2] + ...
object.GetNotes()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	object.notes[noteTypeOrNameOrId]
note.SetText()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	note.text = newText
note.Lock(), Unlock()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	note.locked = newLockedStatus
job.GetProcesses()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	job.processes[processTypeOrNameOrId]; to get all processes, use the syntax:

			<pre>processes = set() for jtpt in job.processes: processes.add(job.processes[jtpt])</pre>
process.assignedTo	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	process.assignedUsers
process.ReplaceAssignments()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	process.assignedUsers = users
document.Lock(), Unlock()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	document.tailRevisionLocked = newLockStatus
revision.SetBaseName()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	revision.baseName = newBaseName
revision.SetExtension()	Mar. 8, 2014 (7.1.2)	Mar. 8, 2017	revision.extension = newExtension
Posse.ConfigCache .PossibleDeficiencyForName(), Posse.ConfigCache .PossibleDeficienciesForColumn(), Posse.Job.GetDeficiencies(), Posse.Process.CreateDeficiency(), Posse.Deficiency, Posse.DeficiencyType, Posse.PossibleCodeViolation, Posse.PossibleDeficiency	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Computronix has a POSSE Mobile application that runs on smartphones and tablets, and which captures checklists, deficiencies, and code violations using standard POSSE object configuration; please contact your account manager to discuss using this application
Posse.ObjectDef.effectiveDated, Posse.ObjectObject.effectiveStartDate, Posse.ObjectObject.effectiveEndDate, Posse.StoredRelObject.effectiveStartDate, Posse.StoredRelObject.effectiveEndDate	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to access and update dynamic details on configured objects; see the <i>Business Alternatives for Effective-Dated Objects</i> white paper
Posse.UserLog, Posse.UserLogType	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard API to access and update configured objects; see the <i>Design Pattern for User Logs</i> white paper
Posse.Object.HasPrivilege() for the "Modify Address" privilege	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard privileges for updating configured objects; see the <i>Design Pattern for Addressing</i> white paper
Posse.Object.HasPrivilege() for the "Merge" privilege	Jul. 31, 2014 (7.1.4)	Jul. 31, 2019	Use standard privileges for creating a configured "merge" object or job; see the <i>Design Pattern for Merging Objects</i> white paper
CreatePDF() (available to Process Server Scripts only)	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	CreateReport()
PrintRevisions(), PrintPDF() (available to Process Server Scripts only)	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Configured Process Server Script
Creating notes via CreateObject()	Dec. 20, 2017	Dec. 20, 2020	CreateNote()

	(7.3.0)		
revision.SetData()	Dec. 20, 2017 (7.3.0)	Dec. 20, 2020	document.SetBlob() and document.SetThumbnails()

Note: In POSSE Version 7.1.5, the dataArea's QueueBusinessError() and RaiseQueuedErrors() methods were deprecated in favor of the equivalent local methods. Since configured Python Modules do not support those local methods, the two methods have been restored to the dataArea object.

Service API

Item	Announce Date (Version)	End of Official Support	Replacement
CreateReport(): Passing the name of an InfoMaker Report	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Pass the name of a Report Registration
CreateAndSaveOperationalReport(): Passing the name of an InfoMaker Report	Sep. 1, 2015 (7.2.0)	Jul. 31, 2019	Pass the name of a Report Registration

6 Warnings

This section provides advance notice of potential changes in future POSSE Releases. The points in this section are based on current direction at the time this document was published.

Security

- Currently, there exist some cases where the execute privilege on database procedures and packages does not need to be granted to the PosseExtensions role. This will be required in the future.
- Currently, database privileges are not necessary to read, update, or delete external objects from within POSSE applications. While this is being retained, at a future date it will be changed to require that appropriate grants be done for PosseExtensions. Therefore, it is recommended that these grants be in place for consistency.

Toolbox

While the toolbox is supported, directly calling packages and procedures in the toolbox from stored procedures, expression columns, or reports is not supported. Therefore, changes to the parameters or names of toolbox procedures will not be identified in the *Release Notes*, and thus direct references to the toolbox in stored procedures, expressions, or reports may break without warning after upgrading or applying patches.

The procedure and global expressions that were installed in your database will be revised as necessary when applying a patch or doing an upgrade.