



## Release Notes

---



## 1Transact

---

Version 2.1.206

24 June 2016

---

Copyright © 2016, 1Spatial Group Ltd. All rights reserved.

1Spatial Group. ■ Registered in England No. 4785688

Registered Office Tennyson House, Cambridge Business Park, Cambridge, CB4 0WZ, UK

Telephone: +44 (0)1223 420414 Fax: +44 (0)1223 420044 [www.1spatial.com](http://www.1spatial.com)



## Contents

1	Introduction.....	3
1.1	Scope.....	3
1.2	Purpose of Release.....	3
1.3	System Requirements .....	3
1.3.1	Operating system.....	3
1.3.2	Hardware .....	3
1.3.3	3rd Party Software.....	3
2	Release details .....	5
2.1	Upgrading the PostgreSQL extension from a previous release.....	5
2.2	New Functionality in this release .....	5
2.3	Bugs Fixed in this release .....	6
2.4	Known Issues and Unresolved Bugs.....	7
3	Providing Feedback.....	8
4	Oracle JDBC Driver Distribution License Terms .....	9

# 1 Introduction

---

## 1.1 Scope

The purpose of the Release Note is to document the new functionality provided by the release and any known issues or limitations. The release notes will also record any administrative instructions that are specific to this release and not recorded elsewhere.

## 1.2 Purpose of Release

This is a full maintenance release that builds on previous release to support WebLogic 12.1.3 and adds some improvements to the PostgreSQL extension as detailed below.

## 1.3 System Requirements

### 1.3.1 Operating system

This version of 1Transact is supported on the following operating systems:

- Microsoft Windows Server 2012
- Oracle Linux 6.7

### 1.3.2 Hardware

Minimum hardware configuration:

- Minimum of 4Gb RAM
- Minimum of 2 CPU cores
- Hardware is dependent on required response times and throughput. Heavily used multi-user systems will need higher server specifications, please contact 1Spatial support (see below) for guidance on server configurations.

### 1.3.3 3rd Party Software

#### 1.3.3.1 Database

- Oracle Database 11g Release 2
- Oracle Database 12c Release 1
- PostgreSQL version 9.3.3

#### 1.3.3.2 Application Server

- Oracle WebLogic Server 12.1.3. Standard edition or Enterprise edition (Enterprise Edition only needed if clustering multiple WebLogic servers for resilience and scalability)

### 1.3.3.3 Browser Support

This version of 1Transact is supported on the following internet browsers:

- Microsoft Explorer v9 or v10
- Mozilla Firefox v22 or later
- Google Chrome v26+

## 2 Release details

---

The following sections provide a description of this release of 1Transact.

**Note:** The PostgreSQL extension version number is not locked to the 1Transact version number. This version's PostgreSQL extension number is .

**Note:** Previously, the master version and initial checkpoint metadata were created when the extension was installed. In order to support seamless backup and restore these are now lazily created when a table is first activated. This means that the version, checkpoint and closure metadata tables in the sms\_1transact schema will appear empty until the first table is activated, but after this the content and structure of these tables are unchanged from previous versions.

### 2.1 Upgrading the PostgreSQL extension from a previous release

You can then follow the 1SMS installation guide's chapter on installing 1Transact and follow the instructions for updating the Postgres extension, which will retain your current configuration, please note the following additional instructions:

Version 2.0.4 of the PostgreSQL extension will create an index on end\_ckpts columns on newly activated tables, but not on tables that are already activated. If you have not already done so you can add the index to tables which have already activated by previous releases of 1Transact by using this SQL: Apply this to each activated table or, if the table is partitioned, then this command needs to be run using the name of each of the child partition tables.

```
CREATE INDEX ON <schema>.<activated_table>_vm (end_ckpts);
```

Where the schema is the table's schema and activated\_table is the name of the activated table (which now has been renamed with an \_vm suffix)

### 2.2 New Functionality in this release

2.1.206	
MSCOMMON-497	Remove redundant JDK selection from installer and warn users when installing into a domain having an unsupported Java version
2.1.204	
MSCOMMON-540	Support for Oracle Linux 6.7
2.1.202	
MSTRANSACT-371	Set EJB timeout for workspace manager to a higher default value (from 30 mins to 3 hours)
MSCOMMON-519	Remove JDK version check from installation scripts
2.1.201	
MSTRANSACT-367	Change how 1Transact detects primary keys in Oracle to exclude

	DELSTATUS as well as VERSION
MSTRANSACT-366	Improve logging of SQL errors in Transact log
MSCOMMON-444	Improve resilience by removing the dependency on having a constantly running AdminServer
MSINT-169	Support Java 1.7 update 80
<b>2.1.101</b>	
New platform support	<ul style="list-style-type: none"> <li>- Oracle Weblogic 12.1.3</li> <li>- Oracle Database 12c Release 1</li> <li>- Windows Server 2012</li> <li>- 64 bit Java 1.7.0_76</li> </ul>
<b>2.0.201</b>	
MSTRANSACT-304, MSTRANSACT-323	Refine access control options for sms_1transact.sql Postgres functionality with specific roles to allow more locked-down access control. See the PostgreSQL Programmers Guide for more details.
MSTRANSACT-317, MSTRANSACT-331 MSTRANSACT-316	Create implicit checkpoint immediately when new version has been created rather than just-in-time.
MSTRANSACT-319	Improve reporting of features in 'difference between checkpoints' view that moved partition; currently they are managed by PostGIS partitioning as a Delete & Create rather than a Modify.

## 2.3 Bugs Fixed in this release

<b>2.1.206</b>	
MSCOMMON-556	Authentication Provider Setup is failing to connect to a SSL enabled Admin Server because is not possible to set the protocol to t3s. (Note, the SSL trust certificate must be installed in JDK or WebLogic trust store before installing the authentication providers or the connection to WebLogic will hang indefinitely with no feedback)
MSTRANSACT-384	Null pointer exceptions in Transact under load
<b>2.1.202</b>	
MSTRANSACT-372	Automatic conflict resolution for Oracle Workspace Manager fails on tables with more than one primary key
<b>2.1.201</b>	
MSTRANSACT-355	PostgreSQL: Replace SECURITY DEFINER with SECURITY INVOKER from extension functions to remove errors when using a stricter security configuration
MSTRANSACT-337	PostgreSQL: Ensure backup and restore works correctly for 1Transact metadata.
MSTRANSACT-314	Re-enable WS-Security header message in SOAP callback responses and fix memory leaks

2.1.101	
<del>MSTRANSACT-314</del>	<del>Revoke this change as it causes memory leaks: Change SOAP web service so that it sends a WS-Security header message in its callback response.</del>
2.0.202 (pg 2.0.3)	
MSTRANSACT-342	Checkpoint creation is incorrectly naming the new open state checkpoint not the previous one
2.0.201	
MSTRANSACT-314	Change SOAP web service so that it sends a WS-Security header message in its callback response.
MSTRANSACT-331	Implicit checkpoint is not created if the first thing done in a new version is to create an explicit checkpoint, meaning checkpoint names getting trampled.
MSTRANSACT-318	Throw an exception if checkpoints are created with the same name to enforce uniqueness.
MSTRANSACT-300	Make Version and checkpoint creation date a timestamp not just a date
MSTRANSACT-316	Automatic checkpoint creation happens just-in-time which confuses users, create them immediately instead.

## 2.4 Known Issues and Unresolved Bugs

MSTRANSACT-326	SOAP Web service requires that callback URLs are passed as HTML URL-encoded strings.
MSTRANSACT-325	Postgres: Automatically create diff views when activating tables and use a set_difference_checkpoints() function to specify the checkpoints to difference.
MSTRANSACT-325	Support foreign key references / join tables
MSTRANSACT-303	Better API and better support for read-only database nodes by creating a fixed-name diff view for each activated table with a function to set the difference checkpoints.
MSTRANSACT-337	Mark metadata tables as part of an extension so that backup and restore will copy their contents
MSTRANSACT-324	Add a SOAP call to get Versions and Checkpoints information
MSTRANSACT-344	Activating a table containing rows fails if checkpoint 1 does not exist
MSTRANSACT-345	Cannot activate a table with only one column

## 3 Providing Feedback

---

If assistance is required while deploying this release, please contact either your Distributor or 1Spatial Support.

1Spatial Support is a dedicated support channel to users of the software to raise bugs and ask questions specific to 1SMS.

To contact 1Spatial Support, please visit our website: <http://www.1spatial.com/services/support>

Maximise the value of this release with 1Spatial training courses. For training enquiries please contact your Account Manager or email: [training@1spatial.com](mailto:training@1spatial.com).



## 4 Oracle JDBC Driver Distribution License Terms

---

This 1Spatial product when deployed on Wildfly includes Oracle JDBC drivers which can fall within these license terms:

### License Rights

We grant you a nonexclusive, nontransferable limited license to use the programs: (a) for purposes of developing, testing, prototyping and running applications you have developed for your own internal data processing operations; (b) to distribute the programs with applications you have developed to your customers provided that each such licensee agrees to license terms consistent with the terms of this Agreement, you do not charge your end users any additional fees for the use of the programs, and your end users may only use the programs to run your applications for their own business operations; and (c) to use the programs to provide third party demonstrations and training. You are not permitted to use the programs for any purpose other than as permitted under this Agreement. If you want to use the programs for any purpose other than as expressly permitted under this agreement you must contact us, or an Oracle reseller, to obtain the appropriate license. We may audit your use and distribution of the programs. Program documentation is either shipped with the programs, or documentation may be accessed online at <http://www.oracle.com/technetwork/indexes/documentation/index.html>.

### Ownership and Restrictions

We retain all ownership and intellectual property rights in the programs. You may make a sufficient number of copies of the programs for the licensed use and one copy of the programs for backup purposes.

#### You may not:

- use the programs for any purpose other than as provided above;
- distribute the programs unless accompanied with your applications;
- charge your end users for use of the programs;
- remove or modify any program markings or any notice of our proprietary rights;
- use the programs to provide third party training on the content and/or functionality of the programs, except for training your licensed users;
- assign this agreement or give the programs, program access or an interest in the programs to any individual or entity except as provided under this agreement;
- cause or permit reverse engineering (unless required by law for interoperability), disassembly or decompilation of the programs;
- disclose results of any program benchmark tests without our prior consent.

### Export

You agree that U.S. export control laws and other applicable export and import laws govern your use of the programs, including technical data; additional information can be found on Oracle's Global Trade Compliance web site located at <http://www.oracle.com/us/products/export/index.html>. You agree that neither the programs nor any direct product thereof will be exported, directly, or indirectly, in violation of these laws, or will be used for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation.

### Disclaimer of Warranty and Exclusive Remedies

THE PROGRAMS ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. WE FURTHER DISCLAIM ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT.

IN NO EVENT SHALL WE BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR DAMAGES FOR LOSS OF PROFITS, REVENUE, DATA OR DATA USE, INCURRED BY YOU OR ANY THIRD PARTY, WHETHER IN AN ACTION IN CONTRACT OR TORT, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. OUR ENTIRE LIABILITY FOR DAMAGES HEREUNDER SHALL IN NO EVENT EXCEED ONE THOUSAND DOLLARS (U.S. \$1,000).

### No Technical Support

Our technical support organization will not provide technical support, phone support, or updates to you for the programs licensed under this agreement.

### **Restricted Rights**

If you distribute a license to the United States government, the programs, including documentation, shall be considered commercial computer software and you will place a legend, in addition to applicable copyright notices, on the documentation, and on the media label, substantially similar to the following:

#### **NOTICE OF RESTRICTED RIGHTS**

"Programs delivered subject to the DOD FAR Supplement are 'commercial computer software' and use, duplication, and disclosure of the programs, including documentation, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement. Otherwise, programs delivered subject to the Federal Acquisition Regulations are 'restricted computer software' and use, duplication, and disclosure of the programs, including documentation, shall be subject to the restrictions in FAR 52.227-19, Commercial Computer Software-Restricted Rights (June 1987). Oracle America, Inc., 500 Oracle Parkway, Redwood City, CA 94065."

### **End of Agreement**

You may terminate this agreement by destroying all copies of the programs. We have the right to terminate your right to use the programs if you fail to comply with any of the terms of this agreement, in which case you shall destroy all copies of the programs.

### **Relationship Between the Parties**

The relationship between you and us is that of licensee/licensor. Neither party will represent that it has any authority to assume or create any obligation, express or implied, on behalf of the other party, nor to represent the other party as agent, employee, franchisee, or in any other capacity. Nothing in this agreement shall be construed to limit either party's right to independently develop or distribute software that is functionally similar to the other party's products, so long as proprietary information of the other party is not included in such software.

### **Open Source**

"Open Source" software - software available without charge for use, modification and distribution - is often licensed under terms that require the user to make the user's modifications to the Open Source software or any software that the user 'combines' with the Open Source software freely available in source code form. If you use Open Source software in conjunction with the programs, you must ensure that your use does not: (i) create, or purport to create, obligations of us with respect to the Oracle programs; or (ii) grant, or purport to grant, to any third party any rights to or immunities under our intellectual property or proprietary rights in the Oracle programs. For example, you may not develop a software program using an Oracle program and an Open Source program where such use results in a program file(s) that contains code from both the Oracle program and the Open Source program (including without limitation libraries) if the Open Source program is licensed under a license that requires any "modifications" be made freely available. You also may not combine the Oracle program with programs licensed under the GNU General Public License ("GPL") in any manner that could cause, or could be interpreted or asserted to cause, the Oracle program or any modifications thereto to become subject to the terms of the GPL.