



## Release Notes

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## 1Generalise

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Version 1.2.2

19 August 2016

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# 1 Introduction

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## 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

The purpose of this release is to update dependencies. This includes a change to extend the DataStore Controller Transaction Timeout.

## 1.3 System Requirements

### 1.3.1 Server Platforms

This version of 1Generalise is supported on the following server platforms.

#### Windows Server 2012 R2

Application Server	Java
Oracle WebLogic Server 12c (12.1.3)	Oracle Java JDK 1.7.0_80 (64-bit)

Common components (required with any application server):

- Microsoft Visual C++ 2013 runtime (may be downloaded from <https://www.microsoft.com/en-us/download/details.aspx?id=40784>)

#### Red Hat Enterprise Linux 6.7 (64-bit)

Application Server	Java
Oracle WebLogic Server 12c (12.1.3)	Oracle Java JDK 1.7.0_80 (64-bit)

### 1.3.2 Client Platform

This version of 1Generalise is supported with the following browser clients:

- Microsoft Internet Explorer version 10 or version 11 in IE 10 document compatibility mode
- Chrome version 46
- Mozilla Firefox version 41

Other browser clients may be used, but support requests will only be progressed if the issue can be replicated on a supported browser.

### 1.3.3 Oracle Database Platforms

This version of 1Generalise is supported on all operating systems listed in section 1.3.1, with the following database platforms for both the **1Generalise repository** and as a **spatial data source**:

- Oracle Database 11g R2 (11.2.0.2 or newer) Enterprise Edition
- Oracle Database 11g R2 (11.2.0.2 or newer) Standard Edition

### 1.3.4 1Spatial Software

All required 1Spatial Software is included in the 1Generalise release. This includes the compatible version of the 1SMS Installer which is required when installing 1Generalise on a supported version of WebLogic Application Server. The table below shows the version that is compatible with this 1Integrate release:

Application Server	Installer
Oracle WebLogic Server 12.1.3	1SMS Installer 1.1.124

## 1.4 Dependencies

This release still uses Gothic 5.46.

This release depends on 1Integrate 1.2.3, updated from 1.2.2. The main changes affecting 1Generalise are listed in section 2.3 Bug Fixes. The full list of changes can be found in the release notes of 1Integrate, included in this release.

## 1.5 Compatibility

The SOAP web service is compatible with version 1.0.110 to 1.2.1.

The REST web service is compatible with versions 1.0.100 - 1.2.1.

## 2 Release details

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### 2.1 Summary of changes provided by this release

For this release, third party components have been updated to be compatible with 1Integrate 1.2.3 and related 1SMS components.

## 2.2 New Functionality in this release

<b>1.2.1</b>	
MSINT-587	New Cache Viewer available for any task: Can step through state of each task, improved UI for seeing non-conformances and selecting features. The Cache Viewer is available from the Sessions tab in the admin UI.
MSINT-300	Configurable styling of cache viewer
MSINT-636	Session description button to document contents of session including details of all rules and actions run.
MSINT-596	New timings summary page for session
MSINT-587	New errors summary page for session
<b>1.1.105</b>	
MSINT-629	Switch to garbage collection of the session data cache. This means that paused sessions can be deleted via the API or UI immediately, without having to stop each one.
MSGEN-1437	Add generalise_monitor role with read only access to the job map screen
<b>1.1.104</b>	
MSGEN-1389	Remove grid parameters from WebLogic installation files included in the release
MSCOMMON-497	Remove JDK selection from the installer and update the supported JDK check. All servers will use the JDK configured when the domain was created.
MSVALIDATE-515	Remove the need to install a Gothic DAM. It is no longer possible to view results of previous steps while a job is being processed. It may be possible to configure the command line installer to use an external DAM, but that configuration is no longer supported.
<b>1.1.102</b>	
MSGEN-1243	Extend the 1Generalise Algorithm for snapping Landcover features (or any area features) to handle impassable classes - a feature should not be extended if it interacts with a feature of one of these classes.
MSGEN-1244	Extend the snap areas algorithm to process features that overlap the calculated extension geometry. Where a feature is within the extension geometry it should be deleted. When a line crosses the extension geometry or an area overlaps the extension geometry, the portion within the extension geometry should be deleted (the geometry set to the difference). Points that lie on the boundary of the extension area and lines that are wholly or partly on the boundary of the extension area but not inside it will not be chopped or deleted.

## 2.3 Bugs Fixed in this release

<b>1.2.2</b>	
MSGEN-1475	DataStore transaction timeout when reading datastore details, change from 120 seconds to 300 seconds. (any longer timeout indicates database connection problems).
<b>1.2.1</b>	
MSGEN-1416	The 1Generalise installer was modified to prompts for the JMS schema name. This makes it possible to run several 1Generalise Interfaces on the same repository, as long as each Interface uses a separate JMS schema. 1Generalise no longer uses Last Logging Resource for handling transactions.
<b>1.1.105</b>	
MSGEN-1436	Fix a bug introduced in version 1.1.104 that prevents restoring action templates in 1Generalise.

<b>1.1.104</b>	
MSGEN-1317	Prevent building_stellate_short_edges from producing sharp angles
MSGEN-1391	Fix a bug where buffering partitions for National Load child job creation could fail, reporting "MultiPolygon cannot be cast to Polygon"
MSGEN-1395	Fix a bug where line features that extend a very short distance outside the partition boundary were not written to the target dataset.
MSGEN-1397	Buildings with spikes Output from the buildings subflow resulted in 'triangular' buildings or obvious spikes. A number of scenarios have been resolved: <ul style="list-style-type: none"> <li>• Where one source building touches another at an angle</li> <li>• Where one generalised building touches another at an angle</li> <li>• Where a source building is not square; i.e. has angular sides within the building outline</li> <li>• Some other rare cases</li> </ul>
MSGEN-1399	Resolve rare cases where building simplification generated spikes (short_edge_removal and stellate_short_edges)
MSGEN-1400	Fix a bug where building_remove_short_edges sometimes generated an error: "failed to invoke building_remove_short_edges Caused by: Lines do not intersect"
MSGEN-1410	Ensure that the ms-generalise-client application includes all required dependent jars (a regression introduced in version 1.1.100).
MSGEN-1413	ScalingGeometryCombiner fails with INVALIDGEOMTYPE. The problem was that it includes a workaround for generation of invalid areas. This failed when we ended up with an invalid geometry that wasn't an area. It has been fixed by verifying the result is an area.
<b>1.1.103</b>	
MSGEN-1396	Reading from a datastore using an Oracle datastore through JNDI fails
<b>1.1.102</b>	
MSGEN-1267	Snap areas fails when the snapping should produce a very thin polygon
MSGEN-1268	Snap Area fails when the area touches the line it needs to snap to
MSGEN-1386	In very rare cases building simplification enters an infinite loop, resulting in an out of memory error
MSGEN-1387	1Generalise does not run jobs on a SOA domain
<b>1.1.101</b>	
MSGEN-1295	When loading an existing classification into the classification UI, filter on attributes which contain several values with space in it could become corrupted, and will need fixing manually.  Manual fix: edit all filter rules that use values with space in it, check that they appear correctly and fix those which are wrong.
MSGEN-1265	Snap areas misses some space at some corners

## 2.4 Known Issues and Unresolved Bugs

<b>ID</b>	<b>Description</b>
1	MSGEN-1315: Short-edge-removal not removing all short edges, leaving some buildings outlines not fully simplified.
3	MSGEN-1327: Develop the capabilities of the integrated Map Viewer, to make it easier to analyse the generalisation results.
5	MSGEN-908: Map Viewer is not available when job extent is defined by a polygon.
8	MSGEN-1393: Syntax error in parameter definition causes the profile UI to silently abort the edit

9	<p>MSGEN-1234: Real attributes in Flowline classes not working.</p> <p>A temporary workaround is to declare the parameter as string and use the conversion built-in functions to convert between real and strings.</p>
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## 3 Installation

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Follow the instructions in the 1Spatial Management Suite Installation Guide.

### 3.1 Upgrading from a release anterior to 1.2.1

Due to an issue found where clearing a managed server's listen address causes NPEs in the security token verification code, there is a requirement to replace the current ms-common-weblogic-security-provider.jar.

If you are installing into a newly created WebLogic domain then ensure that you first use the latest installer (1.1.124) to install the authentication providers.

If you want to upgrade an existing domain then there are two options:

#### **Option 1**

The simplest option is:

1. Shut down ALL servers in system including AdminServers for all domains
2. Delete old ms-common-weblogic-security-provider.jar from each domain's lib directory
3. Copy new ms-common-weblogic-security-provider.jar (provided by customer support) into each domain's lib directory in place of the old jar
4. Start AdminServer
5. Use 1SMS installer 1.1.118 or higher to uninstall and then re-install the authentication providers

\*NOTE: This resets any 1SMS role mappings for your usernames and therefore 1SMS roles will need to be re-assigned

#### **Option 2**

A more complicated approach but one which retains any existing role 1SMS role mappings is:

1. Shut down ALL servers in system including AdminServers for all domains
2. Delete old ms-common-weblogic-security-provider.jar from each domain's lib directory
3. Copy new ms-common-weblogic-security-provider.jar (provided by customer support) into each domain's lib directory in place of the old jar
4. Start AdminServer
5. Open WebLogic admin console
6. Navigate to Security Realms, myrealm, providers
7. Remove MSCustomDBMSAuthenticator & MSLDAPAuthenticator
8. Re-install authentication providers using the latest installer.

## 4 1Spatial Product Assistance

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

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

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