



Release Notes



1Integrate

Version 1.2.2

02 August 2016

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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

A standard maintenance release of 1Integrate

A well-planned implementation of this release will minimise disruption to a live environment. Read the Release Notes thoroughly before installation.

For users of previous versions, 1Spatial recommends the following before applying any changes to your live environment:

- Please read these release notes and the **Installation Guide** for your application server carefully before installing this release
- Ensure all running and paused sessions are completed
- Back up your live database, including your repository
- Test the release on your test platform

1.3 System Requirements

1.3.1 Server Platforms

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

Operating System	Prerequisites
Oracle Enterprise Linux 6.7	
Windows Server 2012 R2	Microsoft Visual C++ 2013 64 bit Redistributable packages Download from this link and pick vcredist_x64.exe https://www.microsoft.com/en-gb/download/details.aspx?id=40784

Application Server	Java
Oracle WebLogic Server 12.1.3	Oracle Java JDK 1.7.0_80 (64-bit)
Wildfly 9.0.1	Oracle Java JDK 1.7.0_80 (64-bit)

1.3.1.1 Optional component:

Component	Reason
FME Desktop 2015 SP1 (64-bit)	Required if loading data in any non-Oracle Database format

1.3.2 Client Platform

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

Browser
Microsoft Internet Explorer 10+
Google Chrome 46+
Mozilla Firefox 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 1Integrate is supported on all operating systems with the following database platforms for both the **1Integrate repository** and as a **spatial data source**:

Database	Edition
Oracle Database 11g R2	Any Edition
Oracle Database 12c R1	Any Edition

1.3.4 Microsoft SQL Server Database Platform

Microsoft SQL server can be used as a data source or a rules repository in the following way:

Database	Can be used as	On which operating system and application server?
Microsoft SQL Server 2008 R2	Spatial data source	Any but requires FME Desktop
Microsoft SQL Server 2008 R2	1Integrate rules repository	Windows Server and Wildfly only

1.3.5 PostgreSQL Database Platform

PostgreSQL can be used as a data source or a rules repository in the following way:

Database	Can be used as	On which operating system and application server?
PostgreSQL 9.5	Spatial data source	Any but requires FME Desktop
PostgreSQL 9.5	1Integrate rules repository	Wildfly only

1.3.6 1Spatial Software

All required 1Spatial Software is included in the 1Integrate release. This includes the compatible version of the 1SMS Installer which is required when installing Integrate 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 1.1.123

2 Release details

2.1 Notable differences since 1Integrate 1.1

There are no known changes to the product API in this release. The main changes to existing behaviour are described in the New Functionality section below and are primarily changes to the user interface for:

- Running partitioned Sessions using 'Multiple predefined regions'
- The session cache viewer
- Error and Timing summaries for sessions
- A session description page to document the contents of a session
- New online help structure and style

2.2 Notable differences since 1Integrate 1.0

2.2.1 SOAP Web service endpoint change

As part of an improved security policy, the SOAP web service endpoint has changed from `http://<host>:<port>/soap`

to

`http://<host>:<port>/soap/StudioService`

2.2.2 SOAP Web service namespace encoding

The SOAP WebServices response has been refactored so that instead of using a prefix to denote namespace `http://schema.onespatial.com/radius/studio/v2` the prefix is omitted and the namespace is made the default one for that element.

For example, instead of

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/"  
xmlns:tns="http://schema.onespatial.com/radius/studio/v2">  
  
<S:Body>  
  
<tns:ReadDataStoreResp>DATASTORE://MY-DATASTORE</tns:ReadDataStoreResp>  
  
...
```

It now reads

```
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">  
  
<S:Body>  
  
<ReadDataStoreResp xmlns="http://schema.onespatial.com/radius/studio/v2"  
xmlns:gml="http://www.opengis.net/gml">DATASTORE://MY-DATASTORE</ReadDataStoreResp>  
  
...
```

This is logically identical XML and should make no difference to XML parsers. Any code which is not using XML parsers but performs string searches for prefix and element name (e.g. if you code ever looks for anything starting “tns:”) will need to be updated to cope with this change. Note that 1Spatial highly recommends the use of standard XML parsing libraries, for example Xerces, for processing SOAP responses in order to avoid these sort of XML parsing issues.

2.2.3 Downloading datastores

For security reasons, Oracle Datastore plaintext passwords are no longer present in the session backup XML.

2.2.4 Uploading any entities

Previous Radius Studio and 1Integrate 1.0 XML upload behaviour:

- For each type of object to restore (rules, actions, sessions, etc.) it creates a new folder at the root level named <username>_<timestamp>
- Everything in the backup xml is restored under these new folders.

New 1Integrate 1.1 and 1Validate 1.1 upload behaviour:

- The entities are restored to the original folder locations from which they were downloaded, creating those folders if they don't already exist. This makes it easier to replicate an environment, for example when copying from a development server to a production server.
- If an entity with that name already exists in that folder, then a version number is appended to the end of the entity being restored (e.g. Overlaps Rule 2).
- If restoring entities with identical names, then to avoid the version numbering, you must first rename any existing folders before doing the upload.
- Datastore passwords are not backed up but if they exist in a backup they are restored correctly.

2.2.5 1Spatial DAM no longer required

Previous versions of 1Integrate required the 1Spatial DAM software, this release removes this requirement. See below for instructions on uninstalling a pre-existing version of the 1Spatial DAM:

Windows:

1. To stop and remove the DAM as a Windows Service, use a command prompt and navigate to this directory -
`C:\Program Files (x86)\1Spatial\dam\com`
2. and enter the command:
`dam -remove`
3. The following output should be displayed:
`Stopping 1Spatial Data Access Manager.
1Spatial Data Access Manager stopped.
1Spatial Data Access Manager removed.`

4. Once the above has been completed you can uninstall the DAM software in the normal way via **Control Panel > Uninstall a program**
5. Ensure the directory `C:\Program Files (x86)\1Spatial\dam` no longer exists
6. Remove the dataroot directory `C:\1Spatial\data`

Linux:

1. Identify the dam process, e.g. -
`ps -elf | grep dam`
2. Note the process ID and kill the process
3. Locate and remove the dam and dataroot directories. Additionally, if the dam was installed under a separate user, i.e. `Isdam`, remove the user.

2.2.6 Session cache garbage collection

Stopping any paused session or deleting any session will now happen rapidly (for deleting via the UI, this applies to deleting from the recycle bin). The session data cache for these sessions will be cleaned up either when any session is run again, or else within 15 minutes, whichever comes first. Sessions which are stopped while running or run to completion behave as before and have their cache deleted immediately on stopping. The result of this change is that it is now possible to completely delete sessions without stopping them and stopping paused sessions is much faster.

2.3 New functionality in this release

1.2.1	
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
MSINT-300	Configurable styling of cache viewer
MSINT-320	Improve data partitioning via 'Several Predefined Regions'. By adding map overview and statistics page and seeing partition sub-sessions running in sub-folder
MSINT-636	Session description button to document contents of session including details of all rules and actions run
MSINT-582	New style for online help including improved search and structure and ability to use offline
MSINT-564	Shifting: Each constraint checked immediately so invalid constraints can be identified
MSINT-500	Shifting: Multi-part geometries can now be shifted
MSINT-596	New timings summary page for session
MSINT-587	New errors summary page for session
1.1.127	
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
1.1.126	
MSVALIDATE-515	Remove the need to install a Gothic DAM
MSINT-441	When opening Shapefile data, treat empty strings as NULL
1.1.125	
MSINT-160	Use JDBC discovery instead of multicast discovery for grid to allow cloud deployments
1.1.121	
MSINT-245	Allow 1Integrate to shift geometries by triangulating shift vectors
MSINT-325	Allow PostgreSQL to be used to host repository

2.4 Bugs Fixed in this release

1.2.2	
MSINT-697	Schema migration doesn't handle empty task results
MSINT-698	Cache viewer fails to display feature classes with numbers at the start of the class name
1.2.1	
MSINT-120	Cache viewer labels disappear/attribution not visible
MSINT-175	00017828 "MSG: Seem to be lost during geometry combination" error while doing a geometric union
MSINT-176	00017845 "CLRGEOM" error while doing a geometric union
MSINT-214	Deselecting all legend items in the cache viewer causes invalid map tiles and multiple stacktraces
MSINT-441	Empty values are loaded as "" (empty strings) instead of null values when opening Shapefile datastores
MSINT-457	Cache viewer does not allow selection of lines and points.
MSINT-484	Shifting: Enhance shift operations to not throw exceptions when a geometry is outside the triangulation
MSINT-500	Shifting: Multi-part geometries are not supported by Shift Vector built-ins
MSINT-502 + MSINT-375	A session that kills a session queue gets load balanced and cascades to all session queues
MSINT-628	Resumed session is not assigned to the next idle session queue
MSINT-638	1Integrate admin interface still refers to goth_dam_host & database.id
MSINT-640	Shifting: error "Unable to triangulate - There are 2 constraints that were not applied due to conflicting requirements."
MSINT-647	Shifting: process freezes while registering constraint vectors within a predefined region.
MSINT-653	Hotspot reporting causes log errors for 2.5d geometries
MSINT-669	Filter rule UI dialogue broken
RST-3874	Cache Viewer unable to display >200 classes
RST-3875	Cache viewer, no case sensitivity for classes different only in case
RST-4678	Right clicking on the cache viewer when measuring causes the values to disappear but the measure line still stays
RST-4805	Cache viewer issues with the map data not displaying, the attributes not displaying or a mixture of both
RST-4854	Odd multiple class selection popups in Cache viewer
RST-4882	14448 Cache viewer is too zoomed on a feature
RST-4884	14448 Cache viewer doesn't always allow lines or points to be selected to check attributes
1.1.126	
MSINT-492	Shifting buitins: Shifting geometry can cause 'wrong triangle' error
MSINT-500	Shifting buitins: Support multi-part geometries
MSINT-484	Shifting buitins: Do not throw exceptions when a geometry is outside of the triangulation
MSINT-471	Copy-to key violation
MSINT-490	Node Drag and drop is not set to the cursor position when editing rules and actions
MSINT-389	Stopped sessions do not clean up the cache
MSCOMMON-497	Remove redundant JDK selection from installer and warn users when installing into a domain having an unsupported Java version
MSCOMMON-556	Authentication Provider Setup is failing to connect to a SSL enabled Admin Server because is not possible to specify 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)

1.1.125	
MSINT-488	Popup menus not behaving correctly using Chrome v50 browser
MSINT-466	Shift built-in operations have wrong descriptions
MSINT-443	Entity metadata loses time values when restarting on PostgreSQL repository
MSINT-489	Multicast problem when working with a firewall (00019224)
MSINT-443	After restart the interface the system doesn't keep the time of the items (using Postgres repository)
1.1.124	
MSGEN-1396	Reading from an Oracle data store through JNDI fails on Wildfly with error: "Couldn't find the Oracle Spatial Connection object from the provided connection."
MSVALIDATE-563	Running a session containing a pause causes "setIgnoreExtent: NoSuchMethod" exception.
1.1.123	
MSINT-478	Specifying grid.local.address on two different machines means that neither can discover the other (00019224)
MSINT-480	Allow specification of grid.discovery.addresses to avoid warning: "TcpDiscoveryMulticastIpFinder has no pre-configured addresses" (00019224)
1.1.122	
MSINT-468	Setting of grid.discovery.tcp.port is being ignored
MSINT-411	Resuming or rewinding a paused session uses a busy session queue instead of a free one causing the job to have to wait for existing sessions to complete
1.1.121	
MSINT-52	Incorrect number of partitions created for 'Several Predefined Regions' Session extent option
MSINT-304	18760 NullPointerException when using Web Services and the InputSchema XML doesn't match SchemaMapping.
MSINT-363	New features not committed to an Oracle database when reading from multiple tables but writing to only one
MSINT-374	Data Load Failure when missing outer ring on a polygon (invalid data)
MSINT-362	Internal error when editing geometry of Topology primitive
1.1.119	
MSINT-341	Session queue does not start if it does not have internet access
MSINT-342	Unable to upload very large session/rule backups without editing the configuration settings
1.1.118	
MSINT-181	Exception when we try to expand the attributes of two different data stores
MSINT-196	Save button unavailable until focus change
MSINT-178	Sessions can fail to stop.
MSINT-140	Special characters such as é get lost from metadata when saving
MSINT-231	Make hyperlinks from the entities listed in session tasks
MSINT-199	Allow cache viewer to work on Linux server that has no GUI installed
MSINT-152	Cannot Update the metadata of a finished session
MSGEN-895	Ensure build topology validates compatibility only for classes that will be structured.
MSINT-157	Cache viewer doesn't open for sessions with non ISO Latin characters in their names
MSINT-158	Conformance Metadata xml link and publish button throw NullPointerException
OSGBGENIE-426	Fix issue when the grid starts to process jobs for the first time on a new or cleaned environment, all sessions on a server start reporting SessionUserException (with no more information available in the UI).
RST-5036	Fix session queue crash on data load due to rare data related issue.
RST-4900	Fix issue when browsing through all failures in CacheViewer with Internet Explorer the image

	breaks up with segments displaying in the wrong order.
RST-4952	Fix blurred or broken segmented image when zooming in cacheviewer.
RST-5046	Invalid complex geometries are not imported even if Allow Invalid Geometries is enabled.
RST-5056	Support numbers longer than 64-bit integer / Java long
RST-5057	Unable to cast number larger than limits to String.
RST-5059	'Coordinate Reference System' field seems to be ignored for WGS84 data.
OSGBGDMS-1055	OptimisticLockException when deleting sessions
MSINT-12 / RST-5023	Non-selected attributes NULLed when committing a subset of the attributes
MSINT-20	1SMS batch Installer for 1Integrate to use the clear_domain_password property
MSINT-49	Session queues with no jobs should steal jobs from other queues
MSINT-51	Improve performance of database Commit Task
MSINT-56	Commit task tries to commit temporary target class features
MSINT-57	Rules where all features have errors are reported as 100% conformance
MSINT-62	Rulebuilder UI: Paste should replace abstract nodes rather than insert children
MSINT-64	Installer must support custom properties for 1Integrate
MSINT-65	Rulebuilder UI: When deleting the penultimate child of and AND or sequence, remove the parent AND or sequence
MSINT-66	Rulebuilder UI: When adding an entity to a session, open the picker in the last folder that was accessed
MSINT-67	Omit passwords from datastore XML downloads to improve security
MSINT-69	z values are not transferred in assignment of a geometry
MSINT-71	Unable to read MetaDataStore (Named Constants) via the Web Services API
MSINT-86	When a node fails, many queued jobs also fail affecting resilience.
MSINT-87	MSSQL FME datastore detects wrongly the name of geometry column in Input Mapping
MSINT-91	Oracle datastore may fail to commit the first object after an erroring object if they are in different classes.
MSINT-101	Allow P shaped lines to structure
MSINT-102	Java Heap Error - restoring backup from RS
MSINT-105	Session Deletion Fails with optimistic lock exceptions
MSINT-116	Option in installer to change memory allocation in JVM
MSINT-119	JNDI datastore doesn't work with bounding box extent
MSINT-129	Revert 'overwrite' restore servlet behaviour
MSINT-152	Cannot Update the metadata of a finished session
MSINT-154	FmeRoundTripTest.mapInfoTest fails on Linux: lost double precision
MSINT-165	Failing test: com.onespatial.radius.studio.gothic.TopologySessionTst.testTopologyErrors
MSVALIDATE-523	Validation is leaving behind non-conformance XML data in the database after session is deleted

2.5 Known Issues and Unresolved Bugs

ID	Description
MSINT-506	In the cache viewer, for feature tables with spaces in the names the legend cannot be customised, only toggle\untoggle
MSINT-688	The Session Description fails on CheckRules and ApplyAction tasks containing a mixture of folders

	and single entities.
MSINT-690	A sequence of symbols is not accepted to open the Session Description page.
MSINT-685	After upgrading from 1.1.127 to 1.2.1, the finished icon is not being displayed.
MSINT-682	After upgrading from 1.1.127 to 1.2.1, some sessions which were left paused threw a NOSUCHCLASS exception when resumed after the upgrade.
MSINT-684	After upgrading from 1.1.127 to 1.2.1, some sessions which were left paused threw an IndexOutOfBoundsException when resumed after the upgrade.
MSINT-92	Restore an XML backup to a machine with a different locale causes issues. Workaround available is to add the following to the startup JAVA_OPTS arguments for the 1Integrate Interface container: -Duser.country.format=GB -Duser.language.format=en
	The Microsoft SQL Server Spatial data store does not support reading or writing tables that contain multiple geometry columns.
	1Integrate allows spatial columns to contain a mixture of geometry types – many formats force a geometry column to contain only points, lines or areas. When such data is written to Shapefile format via FME, there will be a shapefile for each geometry type whose name will have the geometry type appended, e.g. "Road_line."
	It is not possible to create any geometry properties when importing data through the Comma Separated Values data store. Contact 1Spatial Customer Support for information about how to create geometry using 1Integrate actions. In order to be able to create the geometry, the schema for a CSV data store always includes a geometry attribute. If a geometry attribute is to be created later, the Allow Invalid Geometries option must be selected when importing data. If no geometry is to be created, the geometry attribute should be deselected from the schema.
	Unzipping the main 1Integrate zip file can fail using the built-in Windows "Extract All" facility due to a "Path too long error". Use a third party zip program such as 7-Zip or extract the release to the top level directory of a drive and move it afterwards to the desired location.
	After installing any updated version of 1Integrate, for any browsers to be used with the release the browser cache should be cleared and the browser restarted.
	The Cache Viewer cannot be used to view the content of completed sessions – to use the Cache Viewer, there must be a Pause task at the end of the session (so the session has performed all processing, but is not yet 100% complete – this means the cache does not get tidied up and remains available for viewing).
	The script for removing WebLogic from an existing domain does not remove everything necessary to be able to install a newer version. The release should be installed into a new domain or one that has never run 1Integrate.
RST-4774	After a file has been uploaded through the web service, the name of the file is blank in the Input Details of the data store in the UI. Test Connection, Get Schema and opening data from the data store will work, but it may be confusing.
RST-4775	Further notes related to accessing the 1Integrate web services from .NET clients. Technical issues prevent streaming of data for uploading and downloading files. Client-side buffers must be large enough to hold the complete message. The largest buffers possible can be set in <code>app.config</code> by updating the configuration to include: <code>maxBufferSize="2147483647" maxBufferPoolSize="2147483647"</code> <code>maxReceivedMessageSize="2147483647"</code>

	<p>.NET does not fully conform to the HTTP 1.1 standard for continuations, which will result in the connection failing with a 505 error. To resolve this, configure either the client to use HTTP 1.0. This can be done by over-riding the <code>GetWebRequest</code> method in <code>Reference.cs</code>:</p> <pre>protected override WebRequest GetWebRequest(Uri uri) { HttpWebRequest request = (HttpWebRequest)base.GetWebRequest(uri); request.ProtocolVersion = System.Net.HttpVersion.Version10; return request; }</pre> <p>For more information see: http://devproj20.blogspot.co.uk/2008/01/force-c-web-service-proxy-to-use-http.html</p> <p>Alternatively, the problem can be worked around by adding the following statements to the .NET program to be executed before accessing 1Integrate:</p> <pre>ServicePointManager.MaxServicePointIdleTime = 15000; ServicePointManager.Expect100Continue = false;</pre>
RST-4779	<p>When an object fails to import through FME, the co-ordinates of the MBR of the feature are reported when known. However, the values for maxX and minY are transposed.</p>
RST-4780	<p>A copy of an FME data store can't be used to read data until a data file is uploaded, even though a file name is displayed in the GUI and Test Connection will succeed.</p> <p>The session will run, but will not load any data. To resolve the issue, upload a new data file to the copy of the FME data store.</p>
RST-4781	<p>1Integrate may fail to load the FME Objects DLL, with an error message similar to:</p> <pre>java.lang.UnsatisfiedLinkError: C:\Program Files (x86)\FME_2013_b13450\fmeobj_java.dll: The specified procedure could not be found</pre> <p>and/or</p> <pre>java.lang.NoClassDefFoundError: Could not initialize class COM.safe.fmeobjects.FMEObject</pre> <p>The most common cause of the error is a problem with the configuration of the PATH environment variable.</p> <p>If FME is installed on Windows to a location where the path to the file includes spaces – for example <code>C:\Program Files (x86)\FME</code>, it must appear in the PATH environment variable in the shortened 8.3 name, e.g. <code>C:\Progra~2\FME</code>. It may be necessary for the FME entry to be the first entry in PATH to avoid an error similar to the one described above.</p> <p>On Linux, a similar error may be reported if the <code><FME_HOME>/fmeore</code> directory has not been added to <code>LD_LIBRARY_PATH</code> as described in the Installation Guide.</p>
RST-4976	<p><code>rs_data_loaders</code> role missing from weblogic installers and the online help.</p>
	<p>When loading MapInfo TAB data on Linux environments, the Data Store does not automatically identify the Coordinate Reference System (CRS). Users can work around this by specifying the CRS in the 'Coordinate Reference System' field on the 'Input Details' tab of the Data Store. The string required starts 'FME=' followed by the required FME CRS. For example if WGS84 is required, enter the following:</p> <pre>FME=LL-WGS84</pre> <p>Or</p> <pre>FME=EPSG:4326</pre>
RST-5077	<p>WM error, insufficient privileges when committing. This is due to an Oracle database bug. Either</p>

	make the data owner a dba user, or apply Oracle patch 9190764 available here: https://updates.oracle.com/download/9190746.html
MSINT-155	The Gothic native library could not be initialised (Linux only) – often caused by the ICU libraries needing to be relinked after a machine reboot
MSINT-381	Sessions will not run if a networked drive is set in the PATH Environment Variable on an Server that is offline

3 Installation

Follow the instructions in the Installation Guide for your application server.

3.1 Upgrading from 1Integrate 1.1

This release will automatically upgrade the repository from the 1Integrate 1.1 release on initial startup. Ensure that all running and paused sessions are stopped before upgrading, particularly any paused sessions that are partitioned using 'Multiple Predefined Regions'. It is recommended that you take a database backup of the repository before doing the upgrade.

Follow the installation guide to install the new release in place of the existing version, using the same database connection details for the repository. When the new version is started it will automatically upgrade the repository. **Note that this is a one-way upgrade, once you have started the new version then the repository is upgraded and can no longer be used by 1Integrate 1.1 or downgraded. This is why it is recommended that you backup the repository first.**

3.2 Upgrading from Radius Studio 2.x

If upgrading from Radius Studio 2.x releases, follow the 1Integrate installation as documented in the installation guide. This should include creating a new repository. You cannot directly upgrade and re-use the existing Radius Studio repository but Radius Studio elements (data stores, rules, actions etc.) can be migrated to 1Integrate by following these steps:

1. Download elements as XML files using the 'Download' feature in the Radius Studio user interface. Remember that this will automatically include all elements that are needed. For example when downloading a session, all datastores, rules, actions and action maps that are referenced by that session will be automatically included.
2. Upload these XML files to the new 1Integrate installation using the 'Upload' feature in the 1Integrate user interface.

However, it is highly recommended that prior to performing an upgrade from Radius Studio to 1Integrate, 1Spatial Support should be contacted who will guide you through this process. To contact 1Spatial Support, please visit our website: <http://www.1spatial.com/services/support>.

3.3 NIC/Network Adaptor Configurations

The Grid discovery used to find session queues by default uses the first found non-loopback address, for example a machine with Ethernet adaptors 'eth0' & 'eth1' and Local Loopback 'lo' will likely use 'eth0'.

3.3.1 Networked environment

Note: If you do not need to override the adaptor default behaviour, then the following properties do not need to be included.

The following properties must be updated:

- **grid.local.address** - specifies the IP address of the network adaptor used for grid communication.
- **grid.communication.tcp.port** and **grid.discovery.tcp.port** - allows environments to specify known ports (for example, when using a firewall).

The communication port must be a minimum of 100 greater than the discovery port, in order to avoid conflict.

For Wildfly, the following properties must be included in the **settings.properties** file:

```
grid.local.address=[NIC Address]
grid.discovery.tcp.port=[default: 51300]
grid.communication.tcp.port=[default: 51401]
```

For WebLogic, include the following in the Server Start Arguments (within the WebLogic Server Administration Console):

```
-Dgrid.local.address=[NIC Address]
-Dgrid.discovery.tcp.port=[default: 51300]
-Dgrid.communication.tcp.port=[default: 51401]
```

3.3.2 Standalone environment

For non-networked standalone environments where there is not an active NIC/Network Adaptor, the loopback localhost can be used:

```
(-D)grid.local.address=127.0.0.1
```

4 1Spatial Product Assistance

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>

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