

Release Notes



1Integrate

Version 2.8.1

18 March 2021



Table of Contents

1	Int	roduction	3
	1.1	roduction	3
	1.2	Purpose of Release	
	1.3	System Requirements	3
2	Re	lease details	(
	2.1	Summary of Changes	6
	2.2	New functionality and bugs fixed in this release	8
	2.3	New functionality in previous releases	<u>S</u>
	2.4	Bugs Fixed in previous releases	10
	2.5	Known Issues and Unresolved Bugs	12
3	Ins	tallation	15
	3.1	Special notes for upgrading to 1Integrate 2.8.0 or 2.8.1 on WildFly	15
	3.2	Special notes for upgrading from 1Integrate 2.3.3	15
	3.3	NIC/Network Adaptor Configurations	16
4	1S	patial Product Assistance	17
5	5 Oracle IDBC Driver Distribution License Terms		



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 release of 1Integrate.

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

Operating Systems

This version of 1Integrate is supported on the following platforms:

Operating System	Prerequisites
Oracle Linux 7.8	
Windows Server 2019	Microsoft Visual C++ 2019 64 bit Redistributable packages Download from this link and pick vcredist_x64.ex
	https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads



Application Servers

1Integrate requires an application server and the following are supported (Note that WildFly is provided as part of the installation package and Oracle WebLogic is a pre-requisite that must be installed beforehand):

Application Server	Notes
Oracle WebLogic Server 12.2.1.3	Any Edition, must be pre-installed
WildFly 22.0.0	Delivered as part of the 1Integrate installation

Java JDK

The supported Java 8 (64-bit) JDK depends on which application server you are using:

Application Server	Java JDK
Oracle WebLogic Server 12.2.1.3	Oracle JDK (8 update 281)
WildFly 22.0.0	AdoptOpenJDK (8 update 282)

Database Platforms

A database is required to act as the 1Integrate repository to store **configuration**. In addition, databases can be used as a source for **spatial data**. The following database platforms are supported with the following restrictions:

Database	Restrictions
Oracle Database 12c R2 (Any Edition)	None
Oracle Database 19c R1 (Any Edition)	
	When used as data source, requires FME desktop (see below).
Microsoft SQL Server 2019	When used as a rules repository, only supported on WildFly
	application server.
PostgreSQL 12.4/12.6 (with PostGIS 3.1)	When used as rules repository, only supported on WildFly
, , , , (application server.



Optional FME desktop integration

For full data format support please check the 1Integrate online help under "Basic Steps-> Data Stores -> Supported Data Stores":

https://1spatial.com/documentation/1integrate/v2 8/Topics/Data%20Stores/Supported Datastores.htm

Component	Edition	Reason
FME Desktop 2018.1 (64-bit)	Professional Edition	Read or write CSV, Bentley Microstation DGN, Autodesk DWG/DXF Write Esri File Geodatabase
FME Desktop 2018.1 (64-bit)	Esri Edition	Formats listed above plus read or write Esri Enterprise Geodatabase. Requires installation of one of: • ArcGIS for Desktop 64-bit Background Geoprocessing • ArcGIS Pro 64bit • ArcGIS for Server
FME Desktop 2018.1 (64-bit)	Database Edition	Formats listed above plus write to Microsoft SQL Server

Web Browsers

This product works with most of the recent versions of Chrome, Firefox and Internet Explorer. The specific versions that have been tested for this release are:

Browser
Microsoft Internet Explorer 11
Google Chrome 88
Mozilla Firefox 80 No longer run through the automated tests so support cannot be guaranteed until a future release.

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

Monitor Resolution

We recommend a minimum resolution of 1080p (1920×1080) for the best experience using the 1Integrate interface.



2 Release details

2.1 Summary of Changes

Notable differences in 1Integrate 2.8.1

- WFS data store: New OGC Web Feature Service data store supporting GeoJSON and OAuth.
- Support for PostgreSQL 12.4 and PostGIS 12.4 (as both a repository and data store format).
 - Note: Only this version is now officially supported and 1Integrate will not start when using PostgreSQL 9.4 or older repository.
- Remove PostGIS FME datastore (Note: PostGIS support is now only via inbuilt PostGIS data store)
- Support XYZM in SQL Server Data Store
- Configure security settings via settings.properties
 - Note: Configuring HTTPS or LDAP or Securing cookies on WildFly is now made simpler by using settings.properties rather than modifying the WildFly files directly. If upgrading from a previous release then be sure to follow the new instructions in the Security Settings topic.
- New API call to get the number of engines, their availability and the queued jobs
- Can clone an entity via REST API
- Java version Support:
 - o Oracle Java 8 update 281 with WebLogic
 - AdoptOpenJDK 8 update 282 with included WildFly
- Note: The structure of the settings.properties file has changed. When upgrading, do not replace the file
 in the new installation with the previous installation's settings.properties. Instead, open both
 settings.properties files and update the appropriate settings from the old installation to the new
 installation.
- Note: Due to recent updates, Firefox is no longer tested automatically so support cannot be guaranteed. The aim is to recontinue support in a future release.

Notable differences in 1Integrate 2.8.0

- Support for MS SQL Server 2019 (as both a repository and data store format). Note: Only this version is now supported.
- Support for Microsoft Visual C++ 2019 64 bit Redistributable
- Support for Oracle Enterprise Linux 7.8
- Added support for ArcGIS Portal and related tables in the Esri Feature Service Data Store
- Ability to temporarily disable a task within a session
- Ability to override the session extent for an open data task
- New "Singleton" system class (sys:singleton) for performing action or rule logic exactly once
- New "session" scoped temporary value, and renaming of existing "local" and "global" scope to "object"
 "task" respectively within the UI (API functionality is unchanged)
- Support for deploying 1Integrate as a service on WildFly, on Windows only. See installation guide for details.
- Note: Backups taken from 1Integrate 2.8 onward may not work in older versions of 1Integrate if they use some of the new features
- Other fixes, improvements



Notable differences in 1Integrate 2.7

- Support for WildFly 20.0.1
- Some references to Session Queues have been renamed to Engines, and this effects installation steps for WildFly. Please see 3.1 Special notes for upgrading to 1Integrate 2.8.0 or 2.8.1 on WildFly.
- Support for Windows Server 2019 (Windows Server 2012 no longer supported)
- Support for AdoptOpenJDK in addition to Oracle JDK (Please see System Requirements: Java JDK for details on version numbers and supported application servers)
- Updated database support for the 1Integrate repository (Please see System Requirements: Database Platforms)
- New datastore: Esri ArcGIS server (for Esri feature services)
- Ability to give tasks a custom label to more easily identify them within sessions
 (Note: REST API updates have been made to enable this feature, please see the updated REST API guide)
- Ability to toggle all indexes on/off when configuring a datastore
- Role-based authorization available in WebLogic installations
- Only available datastore types are listed (dependent on FME integration)
- Ability to include a custom banner on the login page
- Other fixes, improvements

Notable differences in 1Integrate 2.6

- Support for Oracle Database 19c (Oracle Database 11 no longer supported)
- Ability to restrict open data task extent to that of previously opened data
- New built-in functions for schema checking (class_get_attribute_type, class_get_attribute_value, class_get_attributes, class_is_attribute_null)
- New datastore support: Google BigQuery
- New landing page
- Ability to specify which ordinate to ignore when reading XYZM (measured, heighted) data
- Note the following change to the SOAP API: the asynchronous endpoints and synchronous endpoints have been merged and the endpoint and namesapace renamed from studio* to integrate*

Notable differences in 1Integrate 2.5

- Support for PostGIS (PostgreSQL 9.5) data out-of-the-box without the need for FME licenses
- Support for FME 2018.1 (Note: Using FME 2018 via Data Stores on Linux when running on WebLogic can cause crashes which will be fixed in a later release)
- PostGIS datastore using FME not supported on Linux
- Use more meaningful names when downloading backup files
- New copy attributes built-in operation
- Support for Java 1.8 update 211 (as well as update 141)
- Security improvements
- Other fixes, improvements



2.2 New functionality and bugs fixed in this release

New functionality

2.8.1	
MSINT-2046	Introduce a system warning when approaching licence expiration date
MSINT-2416	Allow users to choose between XYZ or XYM for XYZM data via SQL Server Data Store
MSINT-2434	Configure security settings via settings.properties
MSINT-2476	New API call to get the number of engines, their availability and the queued jobs
MSINT-2569	Show which tasks were disabled in the Cache Viewer session tasks tab.
MSINT-2585	WFS data store: New OGC Web Feature Service data store supporting GeoJSON and
	OAuth.
MSINT-2666	Clone an entity via REST API
MSINT-2623	Remove PostGIS FME datastore (PostGIS support is now only via inbuilt PostGIS
	data store)
MSINT-2622	Support PostgreSQL 12.4 and PostGIS 12.4
MSINT-2639	Java version Support: Oracle Java 8 update 281 with WebLogic
MSINT-2653	Java version Support: AdoptOpenJDK 8 update 282 with included WildFly

Bugs fixed

2.8.1	
MSINT-2799	Unable to run a session with special characters in datastore password
MSINT-1907	copy_attributes builtin not locating class attributes when specifying attributes to exclude
MSINT-2119	The error details text on the Licence validation error page is almost invisible
MSINT-2329	Actions or rules referencing All Classes fails with UNKNOWN CLASS if run before any Open Data tasks
MSINT-2350	00032528: Unable to backup Session with no classes selected in open data task
MSINT-2385	REST API doesn't return correct state for a partitioned session
MSINT-2470	Don't show the FME datastores if the environment's FME build number is below the minimum supported version
MSINT-2525	Do not load 1Spatial news on the landing page
MSINT-2557	CAD datastore unable to change attribute type mapping
MSINT-2567	Opening non-spatial File Geodatabase data using the inbuilt GDAL Data Store in a session with an extent restriction causes the engine to crash.
MSINT-2574	1Integrate ignores the temp.directory setting
MSINT-2607	Copying a file based datastore does not copy the uploaded file
MSINT-2613	1Integrate REST API doesn't support CORS (cross-origin resource sharing) requests
MSINT-2705	Installation guide update to clarify SQL Server repository user creation
MSINT-2709	Large files between 500Mb and 1Gb fail upload to a data store when using a PostgreSQL repository.
MSINT-2725	ArcGIS Feature Service Data Store does not handle incorrect polygon ring direction



MSINT-2730	1Integrate status is incorrectly set to warning even with supported SQL server version
MSINT-2731	Datastore input mapping attribute indexes are unset on upgrade to 1Integrate v2.8.0 (workaround if already upgraded is to download and re-upload the data store through the UI or API).
MSINT-2735	REST API - Data store GET request is not returning the correct value for whether input mapping attributes are set to "report"
MSINT-2739	ArcGIS Server Service that does not expose layer types can't be spatially filtered

2.3 New functionality in previous releases

Note that not all releases add new functionality - bug fixes are listed in a separate table.

2.8.0	
MSINT-453	New "Singleton" system class (sys:singleton) for performing action or rule logic exactly once
MSINT-1400	Support for Microsoft Visual C++ 2019 64 bit Redistributable
MSINT-1570	Support for Oracle databases that have no locator or spatial module installed
MSINT-2103	Ability to temporarily disable a task within a session
MSINT-2132	Support for MS SQL Server 2019
MSINT-2200	Support for deploying 1Integrate as a service on WildFly, on Windows only. See installation guide for details.
MSINT-2262	New "session" scoped temporary value, and renaming of existing "local" and "global" scope to "object" "task" respectively within the UI (API functionality is unchanged)
MSINT-2454	Esri Feature Service Data Store: Authentication via Portal
MSINT-2481, MSINT-1569	Scripts and documentation for installing 1Integrate as a service on WildFly, on Windows.
MSINT-2512	Ability to override the session extent for an open data task, to open all data.
MSINT-2520	Latest Java patch support
MSINT-2529	Esri Feature Service Datastore: Related Non Spatial Objects
-	Support for Oracle Enterprise Linux 7.8
2.7.1	
MSINT-2334	Improved information if data store is unavailable (e.g. FME is disabled or custom data store removed)
MSINT-2389	Support AdoptOpenJDK 8 update 265
2.7.0	
MSINT-1463	Toggle all Indexes On/Off within datastore input mapping
MSINT-1664	Ability to include a custom banner on the login page
MSINT-1853	Support role-based authorisation when deployed to WebLogic
MSINT-2007, MSINT-2283, MSINT-2304, MSINT-2322	Upgrade to WildFly version 20
MSINT-2087, MSINT-2158, MSINT-2256	Users can add custom names to tasks within a session, for improved readability
MSINT-2113, MSINT-2139,	New datastore: Allow read and write to Esri ArcGIS server feature services



MSINT-2140, MSINT-2144	
MSINT-2128	Support Java 8 update 251
MSINT-2129	Support Windows Server 2019
MSINT-2130	Support AdoptOpenJDK 8 update 252
MSINT-2137	Only available datastore types are listed (dependent on FME integration)
MSINT-2203	Reduce verbose error logs
2.6.1	
MSINT-2026	Consolidated SOAP API endpoints
2.6.0	
MSINT-1430	Show which session queue is running a session
MSINT-1461	Support Oracle Database 19c R1 (Database 11g no longer supported)
MSINT-1564	Support for measures for GDAL data stores
MSINT-1994	New built-in functions (class_get_attribute_type, class_get_attribute_value, class_get_attributes, class_is_attribute_null)
MSINT-1922	Data Store setting to specify whether to read M or Z when reading XYZM data
MSINT-1834	Enable Windows Authentication for the FME SQL Server Data Store
MSINT-2001 MSINT-2002 MSINT-2003	New datastore type: Google BigQuery
MSINT-2004 MSINT-2029	Restrict Open Data Task's extent to that of convex hull of already loaded data
MSINT-2034	New landing page and menu bar
2.5.1	New landing page and mend bar
MSINT-1987 MSINT-1970 MSINT-1965 MSINT-1964 MSINT-1948	Security: Various security improvements
MSINT-1947	Update to latest JQuery
2.5.0	
MSINT-1643	Out-of-the-box ability to read and write PostGIS data from PostgreSQL 9.5 without the need for FME (PostGIS via FME on Linux no longer supported)
MSINT-1997	Support Java 1.8 Update 211
MSINT-1465	Upgrade to FME 2018 (Note: Using FME 2018 via Data Stores on Linux when running on WebLogic can cause crashes which will be fixed in a later release)
MSINT-1839	New copy_attributes Built-in operation to copy matching attributes from one object to another
MSINT-485	Use more meaningful names for files created by downloading entities
MSINT-1567	Improve data upload form to be the same as rules upload form
MSINT-1508	Allow rs_data_loaders role to upload files
MSINT-1985	WebLogic, default users changed to match WildFly

2.4 Bugs Fixed in previous releases

2.8.0	
MSINT-1912	Error message "unexpected geometry type: 12" when dealing with multisurface feature



MSINT-2328	Accented characters corrupted in xml backups
MSINT-2401	Cache viewer not always finding the feature for a non-conformance, when stepping through non-conformance report
MSINT-2437	Unable to dismiss large error pop-ups
MSINT-2515	The order object reports are retrieved from the database is not always the same order with which they were inserted
2.7.1	
MSINT-2418	Unable to load FME PostGIS data store after loading cache viewer
MSINT-2388	Error message persists when encountering an upload/restore error
MSINT-2276	Correction to XOR condition description in UI
MSINT-2351	"Hide stack traces" mode causes repeated error messages
MSINT-2361	Indexing appears checked at class level when attributes are un-checked
MSINT-2384	Features failing to write out to Shape via GDAL
MSINT-2390	APIs not reporting correct indexing state of primary geometry attribute
MSINT-2440	Unable to deselect base classes within Inheritance based schemas
2.7.0	
MSINT-1498	Error in UI when running a session with a multi-polygon extent
MSINT-1796	Validation Report ignores descriptions of rules when running a folder
MSINT-1852	Action Map output message corrected (from "fixed" to "applied")
MSINT-1949	Unable to write out file based datastores via FME
MSINT-2109	Action Map does not return detailed counts in REST API
MSINT-2166	Ensure the GDAL writer can write classes that contain a colon
MSINT-2176, MSINT-2181	Risk of data loss when writing shape files through GDAL
MSINT-2194	GDAL datastore unable to write out points and multipoints in the same layer
MSINT-2320	Cache viewer broken in IE 11
MSINT-2321	Broken feature selection in the cache viewer
MSINT-2325	Inconsistent session results via REST API
MSINT-2326	Failing WMS request parsing
MSINT-2337	Broken XML report download button on the Rule Conformance Results page
MSINT-2340	Session stuck on polygon WKT open data restriction
MSINT-2347	When hiding stack traces, errors for sessions not currently selected are lost
2.6.2	
	OGC simple built-in function can stop session with 'Error in nesting of rings in polygon' for
MSINT-2165	some invalid polygons Generating the non-conformance hotspot can cause 'CLRGEOM: Geometry contains no
MSINT-2157	coordinate data' errors
2.6.1 MSINT-2136	Google BigQuery performance and query size fix
MSINT-1600	
	FME FileGDB output not respecting character length
2.6.0	
MSINT-1603	PostgreSQL repository: Error when uploading large files
MSINT-2078	Height built-in function throws exception for non-heighted geometries
MSINT-2008 MSINT-1851	Remove WildFly library classpath warning in logs rule_hotspot_geometry built-in function isn't restorable from a 1Integrate for ArcGIS .rules
MSINT-1851 MSINT-1911	backup



MSINT-1769	
MSINT-2024	Two dots in a FGDB data store name gets blocked by security check
MSINT-2027	Job graphs don't work consistently across all browsers
MSINT-2052	PostGIS data stores: Cannot set 'Output Mapping' to a different target table to source
MSINT-2061	GDAL data stores leave file handles open, leaking resources
MSINT-2067	WebLogic startup errors related to classes implementing the Java EE spec
MSINT-2019	Data store names inconsistently referenced in file upload errors
MSINT-1827	NullPointerException when generating hotspot for spatial relationships in certain conditions
NACINIT 4245	nearest_point built-in function default value for third parameter (return single point) should
MSINT-1315	be 'true'
2.5.0	
MSINT-1860	Open data tasks error when opening two tables into the same class
MSINT-1869	Loading a large ontology to a data store takes several minutes to upload/select data store/use as context
MSINT-1296	When reporting missing built-in function, report the rule that contains it
MSINT-1524	Cache viewer not showing multi-part geometries
MSINT-1927	Cache Viewer rendering wrong for Geodetic data with reversed axis ordering
MSINT-1935	Cache viewer doesn't display Advanced Style page correctly
MSINT-1879	Ontology is not backed up with the data store
MSINT-1881	Type error starting session when ontology changes type
MSINT-1923	Data Gateway: Enable definition of user-defined classes through API to prevent validating report objects.
MSINT-1931	ORA-00054: resource busy and acquire with NOWAIT specified sometimes seen at startup
MSINT-1976	FME PostGIS Data store: Datatype int is read as fme_varchar

2.5 Known Issues and Unresolved Bugs

ID	Description
MSINT-1465	Using FME 2018 via Data Stores on Linux when running on WebLogic can cause crashes which will be fixed in a later release
MSINT-1865	Upgrading to version 2.3.4 from a previous release may cause the following error when running a session "gothic.main.GothicException: load of native library C:\Windows\TEMP\gothic-w64-5.61\gothic_w64.dll failed"
	Workaround is to shut down 1Integrate services and delete the folder named above e.g. 'C:\Windows\TEMP\gothic-w64-5.61\', then restart 1Integrate and continue.
MSINT-1605	'javax.naming.NameNotFoundException: Name "PersistenceUnit" errors occasionally seen in the logs when running on Linux.
	This can be avoided by using a different random number generator or by adding a start server argument to 1Integrate by adding the following startup parameter on the application server:
	-Djava.security.egd=file:/dev/./urandom
MSINT-859	Uploading very large files (several Gb) to a data store may result in timeout errors. To increase the timeouts:
	On Wildlfy: go to\wildfly-9.0.1.Final\standalone\configuration and edit stanadalone.xml



	Th t
	line 381 to increase from 300s (5 mins) to a larger value e.g. 1200s (20 mins):
	<pre><subsystem xmlns="urn:jboss:domain:transactions:2.0"></subsystem></pre>
	<coordinator-environment default-timeout="300"></coordinator-environment>
	On WebLogic Increase TransactionTimeout property in Configuration tab of DataStoreController in the WebLogic admin server
	FGDB data cannot be downloaded from a data store containing non-standard characters in its name, or with a name longer than 145 characters.
MSINT-688	The Session Description fails on CheckRules and ApplyAction tasks containing a mixture of folders and single entities.
	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 to allow them to be temporarily null. 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.
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-4779	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.
RST-4781	1Integrate may fail to load the FME Objects DLL, with an error message similar to: java.lang.UnsatisfiedLinkError: C:\Program Files (x86)\FME_2013_b13450\fmeobj_java.dll: The specified procedure could not be found
	and/or java.lang.NoClassDefFoundError: Could not initialize class COM.safe.fmeobjects.FMEObject
	The most common cause of the error is a problem with the configuration of the PATH environment variable.
	If FME is installed on Windows to a location where the path to the file includes spaces – for example C:\Program Files (x86)\FME, it must appear in the PATH environment variable in the shortened 8.3 name, e.g. C:\Progra~2\FME. 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.
	On Linux, a similar error may be reported if the <fme_home>/fmecore directory has not been added to LD_LIBRARY_PATH as described in the Installation Guide.</fme_home>



	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: FME=LL-WGS84 Or FME=EPSG:4326
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.

1Integrate will automatically upgrade the repository from the existing release on initial startup. Ensure that all running and paused sessions are stopped before upgrading, and we recommend creating a backup of the repository database first.

Follow the installation guide to install the new release in alongside the existing version and use the same database connection details for the repository. For WildFly installations the easiest way to configure is usually to copy the files from the SETTINGS folder from the old installation folder to the new installation folder, however check the release notes as some versions (e.g. 2.8.0 or 2.8.1) contain changes to the structure of the settings file and so cannot be replaced by the older settings file.

When the new version is started it will automatically upgrade the repository if necessary.

Note that for some upgrades (these should be noted in the release notes) this can be a one-way upgrade, once you have started the new version then the repository is upgraded and can no longer be used by the older version, or easily downgraded. For this reason, it is recommended that the repository schema is backed up first.

When performing an upgrade of 1Integrate on WebLogic (an uninstallation of an old version followed by the installation of a newer version) it is important to uninstall the existing version of 1Integrate using the installer that was packaged with that release. Using a newer, incompatible version of the installer will result in errors.

For example, if you are replacing 1Integrate v2.6.2 with 1Integrate v2.7.1, your steps will be:

- 1. Uninstall 1Integrate v2.6.2 with the installer packaged in the v2.6.2 release
- 2. Install 1Integrate v2.7.1 with the installer packaged in the v2.7.1 release

3.1 Special notes for upgrading to 1Integrate 2.8.0 or 2.8.1 on WildFly

From **2.8.0** the **start-SessionQueue.cmd** and **start-SessionQueue.sh** scripts have been renamed to **start-Engine.cmd** and **start-Engine.sh**.

From **2.8.0** some properties in the **settings.properties** file have been renamed (e.g. engine.http.port) and from **2.8.1** some new properties were added, so you cannot copy across an old **settings.properties** file from a previous version of 1Integrate. Instead open the old and new settings.properties files and copy across the appropriate settings.

From **2.8.1**, Configuration of HTTPS or LDAP is now easier and done from the settings.properties file. Follow the updated Security Settings topic in the 1Integrate online documentation.

3.2 Special notes for upgrading from 1Integrate 2.3.3

Upgrading to version 2.3.4 from a previous release may cause the following error when running a session "gothic.main.GothicException: load of native library C:\Windows\TEMP\gothic-w64-5.61\gothic_w64.dll failed"



A workaround is to shut down 1Integrate services and delete the gothic-* folder named in the error message above e.g. 'C:\Windows\TEMP\gothic-w64-5.61\', then restart 1Integrate and continue. Note that the location of this Temp folder is defined by the current user's TEMP environment variable and so it might point to a different location, such as %userprofile%\AppData\Local\Temp

3.3 NIC/Network Adaptor Configurations

For servers with multiple network adaptors, you must specify which adaptor/network to use for grid communication between the components. 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'.

For Servers with multiple Networked Adaptors

The following properties must be set to specify the adaptor to use:

- 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.

If there is only one adaptor and you do not need to modify the adaptor behaviour, then the properties can be omitted to provide the default behaviour.

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]
```

Standalone off-network 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

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



5 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 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.