



Release Notes



1Integrate

Version 2.9

28 May 2021

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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 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 repository database
- Deploy the new version and 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 14.1.1	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 14.1.1	Oracle JDK (8 update 291)
WildFly 22.0.0	AdoptOpenJDK (8 update 292)

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) Oracle Database 19c R1 (Any Edition)	None
Microsoft SQL Server 2019	When used as data source, requires FME desktop (see below). 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_9/Topics/Data%20Stores/Supported_Datastores.htm

Component	Edition	Reason
FME Desktop 2018.1 (64-bit)	Professional Edition	Read or write 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: <ul style="list-style-type: none"> • 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 90+
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 (1920x1080) for the best experience using the 1Integrate interface.

2 Release details

2.1 Summary of Changes

Notable differences in 1Integrate 2.9

- When running multiple actions in a task, run all features through each action in order, rather than individual features through all actions
- 1Integrate is now available as Docker image (contact 1Spatial support for access)
- Ability to generate a Placekey for a location or address
- Ability to set session parameters
 - o Access session parameter value in Rules and Actions
 - o Set and get session parameters via REST API
- Easy configuration of Wildfly logging levels from config file
 - o **Note: This means that structure of the Wildfly settings.properties file has changed.** When upgrading, do not replace the new settings file with the old one. Instead, copy all the settings values from the old file to the new one, or re-use the old file but copy over the commented-out logging level setting from the new file.
- New native Delimited Separated Values datastore (For DSV/CSV delimited text files)
 - o **Note: Support for FME CSV Datastore has now been removed in favour of this new datastore**
 - o Note: The datastore has the following limitations
 - Support for two automatically detected data types – String and Geometry.
 - WKT geometries support is 2D only
 - Invalid geometries are always read in but reported as errors in Open Data task
- Enhanced Backup/Restore capabilities:
 - o 1Integrate Repository Synchronisation Tool (for use cases such as integration with source code management tools and workflows)
 - o Backup/restore subsets of repository as zipped folders structure with one file per entity
 - o Backup/restore a full repository via an Admin Page option
- Grid Statistics endpoint includes hostname details
- New and improved UI Components - Admin Page
- Support WebLogic Server 14.1.1
- **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 2.8.1

- 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).
 - o **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:
 - 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

2.2 New functionality and bugs fixed in this release

New functionality

2.9	
MSINT-2823	When running multiple actions in a task, run all features through each action (in UI order), rather than individual features through all actions
MSINT-2198	Enable simple configuration of Wildfly logging levels in config file
MSINT-2237	Support WebLogic Server 14.1.1
MSINT-2546	Native Delimited Separated Values datastore (CSV) that supports geometry
MSINT-2695	Ability to set and retrieve session parameters via REST API
MSINT-2687	New session parameter value in Rules and Actions to access session parameters
MSINT-2690	Ability to generate a Placekey for a location or address
MSINT-2703	Backup/Restore improvement and new repository synchronisation tool
MSINT-2829	Make 1Integrate docker images available (contact customer support)
MSINT-2877	Update admin page to new style
MSINT-2910	Full repository backup/restore from admin page
MSINT-2932	Update grid statistics endpoint to include hostname details

Bugs fixed

2.9	
MSINT-2902	SQL Server Integrated Security has a missing a file in v2.8.1
MSINT-2942	ArcGIS Feature Service data store writes null for multipart polygons read in from other formats.
MSINT-2802	Datastore parameters containing XML special characters cause session run failures
MSINT-2920	ArcGIS/AGOL Feature Service Data store not recognising some layers as spatial
MSINT-2691	Recycle Bin records Radius Studio as the user who created the folder
MSINT-2900	WFS datastore should attempt retry for schema fetch calls not just data fetch

2.3 New functionality in previous releases

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

2.8.1	
MSINT-2046	Introduce a system warning when within 30 days of licence expiration date
MSINT-2416	Allow users to choose between XYZ or XYM for XYZM data via SQL Server Data Store
MSINT-2434	Configure Wildfly 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

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, MSINT-2140, MSINT-2144	New datastore: Allow read and write to Esri ArcGIS server feature services
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 (<code>class_get_attribute_type</code> , <code>class_get_attribute_value</code> , <code>class_get_attributes</code> , <code>class_is_attribute_null</code>)
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 MSINT-2004	New datastore type: Google BigQuery
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	
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 <code>copy_attributes</code> 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 <code>rs_data_loaders</code> role to upload files
MSINT-1985	WebLogic, default users changed to match WildFly

2.4 Bugs Fixed in previous releases

2.8.1	
MSINT-2799	Unable to run a session with special characters in datastore password
MSINT-1907	<code>copy_attributes</code> 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
2.8.0	
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	
MSINT-2165	OGC simple built-in function can stop session with 'Error in nesting of rings in polygon' for some invalid polygons
MSINT-2157	Generating the non-conformance hotspot can cause 'CLRGEOM: Geometry contains no 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	Remove WildFly library classpath warning in logs
MSINT-1851 MSINT-1911 MSINT-1769	rule_hotspot_geometry built-in function isn't restorable from a 1Integrate for ArcGIS .rules backup
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
MSINT-1315	nearest_point built-in function default value for third parameter (return single point) should 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-2628	ArcGIS returns GEOJSON in WGS84 regardless of data or 1Integrate SRS
MSINT-2927	Microsoft SQL Server Datastore with a where clause does not read all returned data, workaround is to set the 'command timeout' parameter to 0 (unlimited) or a large number of seconds
MSINT-2970	DSV Datastore loads WKT Heighted features as 2D
MSINT-2969	DSV Datastore reads invalid geometries regardless of Allow Invalid flag
MSINT-2912	Open data task showing classes not selected in input mappings
MSINT-2911	Open data task link missing when workspace defined
MSINT-2886	Shortcut backup restore not detecting clashing existing element/name
MSINT-2884	SQL Server Datastore when apply Z value to an existing datastore need to delete all mappings to apply the change
MSINT-2883	SQL Server Datastore does not report the Z value when Reporting on geometry with Z enabled
MSINT-2820	Data store input mapping re-applies selected text after switching datastores
MSINT-2779	REST API returns EntityRef member in RulesTask
MSINT-1465	Using FME 2018 via Data Stores on Linux when running on WebLogic can cause crashes.
MSINT-1865	<p>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"</p> <p>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.</p>
MSINT-1605	<p>'javax.naming.NameNotFoundException: Name "PersistenceUnit"' errors occasionally seen in the logs when running on Linux.</p> <p>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:</p> <pre>-Djava.security.egd=file:/dev/./urandom</pre>
MSINT-859	<p>Uploading very large files (several Gb) to a data store may result in timeout errors. To increase the timeouts:</p> <p>On Wildfly: go to ..\wildfly-9.0.1.Final\standalone\configuration and edit stanadalone.xml line 381 to increase from 300s (5 mins) to a larger value e.g. 1200s (20 mins):</p> <pre><subsystem xmlns="urn:jboss:domain:transactions:2.0"> ... <coordinator-environment default-timeout="300"/></pre>

	<p>On WebLogic Increase TransactionTimeout property in Configuration tab of DataStoreController in the WebLogic admin server</p>
	<p>FGDB data cannot be downloaded from a data store containing non-standard characters in its name, or with a name longer than 145 characters.</p>
MSINT-688	<p>The Session Description fails on CheckRules and ApplyAction tasks containing a mixture of folders and single entities.</p>
	<p>The Microsoft SQL Server Spatial data store does not support reading or writing tables that contain multiple geometry columns.</p>
	<p>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."</p>
	<p>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.</p> <p>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.</p>
	<p>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.</p>
RST-4774	<p>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.</p>
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-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\fmobj_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 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.</p> <p>On Linux, a similar error may be reported if the <FME_HOME>/fmeobject directory has not been added to LD_LIBRARY_PATH as described in the Installation Guide.</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> <p>FME=LL-WGS84</p>

	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>

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