

# 1Integrate

# Release Notes Version 4.0.1

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# Introduction

# 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.

This document also contains the Release Notes for 4.0.0 as this was a major version change and the information remains relevant to 4.0.1.

Release Notes for previous 1Integrate versions are available online.

For more information visit our <u>WebHelp</u> which includes Installation Guides, Quick Start Guides, worked examples and more.

# Purpose of Release

A standard release of 1Integrate.

# Migration Guidance

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

Please also pay attention to the <u>Notable Differences</u> section, which lists changes which may affect your existing processes or require changes to your configuration.

# **System Requirements**

# **Operating Systems**

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

OS	Notes/Caveats
Oracle Linux 7.9	
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.

Application Server	Notes/Caveats
Oracle WebLogic Server 14.1.1	Any Edition, must be pre-installed
WildFly 26.1.3.Final	Delivered as part of the 1Integrate installation

## Java JDK

The supported Java 11 (64-bit) JDK depends on which application server you are using.

Application Server	Java JDK
Oracle WebLogic Server 14.1.1	Oracle JDK (jdk-11.0.18)
WildFly 26.1.3.Final	Eclipse Temurin (jdk-11.0.18+10)

## **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 19c R1 (Any Edition)	None
Microsoft SQL Server 2019	When used as a Rules repository, only supported on WildFly application server.
PostgreSQL 12.4/12.6 (with PostGIS	When used as Rules repository, only
3.1)	supported on WildFly application server.

# Optional FME Desktop Integration

Certain data formats are available only with an FME Desktop installation and license.

Component	Edition	Reason
FME Desktop	Professional Edition	Bentley MicroStation DGN
2018.1 (64-bit)		<ul> <li>Autodesk DWG/DXF</li> </ul>
	C Dealthan	Formats listed above plus read or write
FME Desktop 2018.1 (64-bit)		Esri Enterprise Geodatabase (ArcSDE)
		Requires installation of one of:
	Esri Edition	ArcGIS for Desktop 64-bit
		Background Geoprocessing
		ArcGIS Pro 64-bit
		ArcGIS for Server

# **FME Server Integration**

The FME Server Data Store supports transforming uploaded data from a format that 1Integrate does not usually support into one that it does.

Component	API Version	Software Version
FME Server	FME Server REST API V3	2021.2.5

# **Containerisation Support**

The containerisation and orchestration technologies that are supported.

NOTE: FME Desktop-based Data Stores are not supported in this deployment mode.

OS	Notes/Caveats
Docker	Please contact 1Spatial support for access to a docker image
	To streamline the deployment of 1Integrate on Kubernetes, there is a published official 1Integrate Helm chart. For the Helm chart and other information, please see here:
Kubernetes 1.25.5	https://github.com/1SpatialGroupLtd/helm-charts

#### Web Browsers

1Integrate works with most of the recent versions of Edge, Chrome and Firefox. The specific versions that have been tested for this release are.

Tested Browsers	
Microsoft Edge 112	
Google Chrome 112	
Mozilla Firefox 112	

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

#### Notable Differences in 4.0.1 and 4.0.0

This is a major release so depending on your previous installation, some of the following changes may be breaking or require a change to your installation configuration.

- A brand-new User Interface
- New look online documentation
- New User Permissions (roles)
  - Users will need setting up with the new Permissions
    - For WildFly, the roles.properties file contains the new list of Permissions (roles) and a smaller list of default users - now INTFull, INTAdmin & INTUser only - if you are upgrading, this file will need changing to map the new roles to your users
    - The users.properties file contains the smaller number of default users
  - o API Keys will need re-creating as they are based on the new Permissions
- On WildFly installations, 1Integrate will now use the user's temp directory by default
  - The temp directory is now not set by default in the settings.properties file which means it picks up the user's temp directory on Windows (existing values will still work)
  - o On Linux, as before, this needs to be enabled & set before 1Integrate will start
- The Wildfly settings.properties contains a new parameter for adjusting the threshold for blocking heavily compressed archives which could represent a malicious zip bomb. Change this value if legitimate zip files cannot be uploaded.
- You can no longer write Rules or Actions against the 'anonymous' blank Class. Use a standard class such as 'All' or pick a Class from a Context instead.
  - Previously created Rules and Actions can be restored and used if you edit them and they reference the 'anonymous' blank Class, you will need to use a standard Class such as 'All' or pick a Class from a Context instead.
- New Map Viewer including bookmarks
- Ability to add 'in-line' comments to Rules, Actions and Sessions
- Error Catcher in Rules and Actions (Try...Catch)
- Record and Replay Debugger for Rules and Actions
- New default repository (H2) allows for quick installation for local, development purposes
  - o This changes the Wildfly settings.properties file
  - Not suitable for production environments
- Name changes in Rules and Actions
  - 'Static Value' is now 'Constant (static) Value'
  - 'Constant' is now 'Lookup'
  - o 'Dynamic Value' is now 'Attribute Value'
- The following features are withdrawn from this version:
  - o Partitions Status Map
  - Legacy and IIntegrate for ArcGIS backups

- Metadata Stores They can still be restored in 4.0 but not edited in the UI.
   They will only work with Rules that already reference their Values and should be replaced with the new Fixed Schema 'Lookup Data Store'
- o gridStatistics endpoint
- GDAL-based PostGIS Data Store (replaced with JDBC-based PostgreSQL/PostGIS Data Store)
- FME-based Microsoft SQL Server Spatial Data Store (replaced with JDBCbased Microsoft SQL Server Data Store)
- MySQL Data Store
- Google BigQuery Data Store
  - It is available as an Extension. Contact 1Spatial if you need this Data Store.
- Rule Discovery
- Folder shortcuts

#### Future withdrawal notices

- From 1Integrate 4.1 the SOAP API will be withdrawn
- From 1Integrate 4.1 Metadata Stores will be withdrawn
  - They can be restored in 4.0 but not edited in the UI. They will only work with Rules that already reference their Values and should be replaced with the new Fixed Schema 'Lookup Data Store'.

#### New Features in 4.0.1

Note: For new features added in previous versions, please see our online Release Notes.

ID	Description
MSINT-4539	Map Viewer: Allow 3D map pitch angle to be > 60 degrees
MSINT-5123	Map Viewer: Increase the maximum zoom level

#### Bugs Fixed in 4.0.1

Note: For bugs fixed in previous versions, please see our online Release Notes.

ID	Description
MSINT-5383	1Integrate with cache sharing enabled on the cloud leaks gothic data
	roots
MSINT-5401	Unable to run an Action that uses a timestamp data type static value
	after first starting the engine

#### New Features in 4.0.0

ID	Description
MSINT-889	Data Store schema refresh should retain added classes or ontology
	mappings
MSINT-1164	Report created, modified and deleted counts on Commit Task
MSINT-1291	Differentiate between Global, Local and Task scope temporary values
MSINT-1875	Remove 1Validate sessions folder
MSINT-2169	Improve handling of unique keys in the Data Store page

MSINT-2965 Error Catcher value to deal with exceptions/errors (TryCatch) MSINT-3133 Remove GDAL-based PostGIS and FME-based SQL Server Data Stores MSINT-3265 Remove the deprecated Gridstatistics endpoint MSINT-3298 Add a new parameter for adjusting the threshold for heavily compressed archives (zip bombs) MSINT-3453 Ability to use Temporary Values in Rules MSINT-3453 PostgreSQL/PostGIS Data Store - objects with a UUID are failing to commit MSINT-3472 Validation Service: Combine point spatial hotpots into multipoint geometries in the validation report per non-conformance MSINT-3622 Split the Session Results REST endpoint into a separate endpoint MSINT-3641 Don't extract required 1Integrate libraries to the temp directory MSINT-3750 Non Spatial Filter on CheckRules, ApplyActions, and ApplyActionMaps Tasks MSINT-3750 Non Spatial Filter on CheckRules, ApplyActions, and ApplyActionMaps Tasks MSINT-3879 Brad-new User Interface MSINT-3879 Brad-new User Interface MSINT-3879 Brad-new User Interface MSINT-3879 Rort full additional descriptions for REST API Swagger documentation MSINT-4070 Withdraw the Legacy Backup endpoints MSINT-4071 Withdraw the Legacy Backup endpoints MSINT-4073 New User Permissions MSINT-4114 Validate Schema Task - allow reference schema excess classes MSINT-4146 Add "OGC" to "Web Feature Service (WFS)" Data Store name MSINT-4212 JDBC-based Data Stores: Auto-index attributes on read MSINT-4458 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4458 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4459 Update Swagger docs to include API keys as a means of authentication MSINT-4450 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4540 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4540 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4540 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4540 Remove GDAL PostGIS libraries as Data Store is now withdrawn MSINT-4540 Remove GDAL PostGIS libraries	MSINT-2563	Support H2 for repo, simplifying local/non-production deployments
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Month 4001   Nendine Data Stole parameter to Tix find direction	MSINT-4837	Rename Data Store parameter to "Fix ring direction"
MSINT-4880 Update Data Store WKT converter to be able to handle polygons of a		
single point		
MSINT-5068 File Geodatabase Data Store should retain Field Aliases	MSINT-5068	File Geodatabase Data Store should retain Field Aliases
MSINT-5297 Remove the MySQL Data Store	MSINT-5297	Remove the MySQL Data Store
Dark UI Theme		Dark UI Theme

Download data files directly from a Session
New admin dashboard
New look documentation (WebHelp)
Ability to add and edit Session Parameters in the UI
New Fixed Schema options on Data Stores
Add Generic 'For Loop'
Add Execute and return / Execute and check
True and False predicates
Multi-select Data Stores for Rule and Action Context
Rule and Action Context should persist
New API endpoints for managing folders
New API endpoints for moving all resource types
Session reports downloaded from the UI now JSON, no longer XML
Map Viewer styles stored in the browser cache
Per-page Search/Filter for items in the tree
Ability to hide unselected Classes and Attributes on a Data Store
Ability to bookmark entities
Deprecate Metadata Data Store support
Withdraw the home page
Withdraw Rule Discovery

# Bugs Fixed in 4.0.0

ID	Description
MSINT-1358	Trailing Spaces in Temporary Values cause issues
MSINT-2779	REST API returns EntityRef member in RulesTask
MSINT-3213	Session timings reset to zero after exceeding 24 hours
MSINT-3873	Backup creates a folder if a Rule has a backslash (\)
MSINT-3989	Open Schema Task should be sufficient to allow Copy-To to a Data Store
MSINT-4209	NPE Message for Missing FME Server Datastore Input Parameters
MSINT-4307	JDBC Data Stores: Can't use spatial filter when PostGIS and 1Integrate
	repo both in non-public PostgreSQL schemas
MSINT-4430	FGDB unpredictable behaviour on open data when null geometries are
	present
MSINT-4472	FME Server Data Store: Unable to read any integer attributes for classes
	written using the licenced Esri FGDB writer
MSINT-4526	Non Spatial Filter throws parsing errors when 'contains' function is
	followed by other open brackets
MSINT-3787	Esri File Geodatabase file format data dates changing on read

# Known Issues and Unresolved Bugs

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MSINT-3775	The Schema Transformation Task DerivedAttributeMapping doesn't
	handle NULL
MSINT-2628	Esri ArcGIS Server feature service returns GeoJSON in WGS84
	regardless of data or 1Integrate SRS
MSINT-3904	GML Data Store reads all geometries as heighted, regardless of their true
	dimension
	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.
	The Google BigQuery Data Store is no longer part of core 1Integrate. It is
	available as an extension. Contact 1Spatial if you need it.

# Installation

Follow the instructions in the <u>Installation Guide</u> for your application server.

For most upgrades, 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 (as a database schema and from the Repository Administration tab in the Dashboard), as that repository will not be usable by older versions of 1Integrate once it has been upgraded.

Follow the installation guide to install the new release 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 <u>release notes</u> as some versions (e.g. 4.0, 3.1, and 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.

When performing an upgrade of IIntegrate 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 IIntegrate 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 v3.4.1 with 1Integrate v4.0, your steps will be:

- 1. Uninstall 1Integrate v3.4.1 with the installer packaged in the v3.4.1 release
- 2. Install 1Integrate v4.0 with the installer packaged in the v4.0 release

NOTE: For WildFly installations of 1Integrate, before going live in a production environment or exposing your environment externally, you should change/remove the default passwords defined within the users.properties file.

# Product Documentation and Support

#### Documentation

To review product documentation such as Installation Guides, WebHelp and other release notes, please visit our website: <a href="https://lspatial.com/documentation/lintegrate/">https://lspatial.com/documentation/lintegrate/</a>

## Support

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

To contact 1Spatial Support, please visit our website: <a href="https://lspatial.com/support-services/support/">https://lspatial.com/support-services/support/</a>

# Training

Maximise the value of this release with 1Spatial foundation and advanced training courses.

For training enquiries please contact your Account Manager or email: <a href="mailto:training@1spatial.com">training@1spatial.com</a>