



# 1Integrate

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## Release Notes Version 5.1.0

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# Contents

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Introduction .....	3
Scope .....	3
Purpose of Release .....	3
Migration Guidance .....	3
System Requirements .....	4
Operating Systems.....	4
Application Server .....	4
Java JDK.....	4
Repository Database Platforms .....	4
FME Flow (formerly FME Server) Integration.....	4
Containerisation Support .....	5
Web Browsers.....	5
Release Details .....	5
Notable Differences in 5.1.0.....	5
Future Withdrawal Notices .....	5
New Features in 5.1.0 .....	6
Bugs Fixed in 5.1.0 .....	6
Known Issues and Unresolved Bugs.....	6
Installation.....	7
Product Documentation and Support .....	8
Documentation .....	8
Support .....	8
Training.....	8

# Introduction

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## 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.

Release Notes for previous 1Integrate versions are available [online](#).

For more information visit our [WebHelp](#) 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 [Notable Differences](#) section, which lists changes which may affect your existing processes or require changes to your configuration.

# System Requirements

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## Operating Systems

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

OS	Notes/Caveats
Red Hat Enterprise Linux 9.5	
Windows Server 2022	Microsoft Visual C++ 2022 64-bit Redistributable packages Download from this link and pick vcredist_x64.exe <a href="https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads">https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads</a>

## Application Server

1Integrate requires an application server and the following is supported.

Application Server	Notes/Caveats
WildFly 35.0.0.Final	Delivered as part of the 1Integrate installation

## Java JDK

Java JDK
Eclipse Temurin 21.0.5+11-LTS

## Repository Database Platforms

A database is required to act as the 1Integrate repository to store configuration. The following database platforms are supported with the following restrictions.

Database	Restrictions
Oracle Database 19c R1 (Any Edition)	None
Microsoft SQL Server 2019	None
PostgreSQL 16	Due to default permission changes since v15, the public schema is not recommended for the 1Integrate repository.
H2 Database Engine	This is intended for local, development work and will enable you to get started quickly. <b>Warning: Do not use the default H2 database in production environments.</b>

## FME Flow (formerly FME Server) Integration

The FME Flow Data Store enables the transforming of data from a format that 1Integrate does not natively support into one that it does.

Component	API Version	Software Version
FME Flow	FME Flow REST API V3	2023.1

## Containerisation Support

The containerisation and orchestration technologies that are supported.

OS	Notes/Caveats
Docker	Please contact 1Spatial support for access to the docker containers
Kubernetes 1.29.4	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: <a href="https://github.com/1SpatialGroupLtd/helm-charts">https://github.com/1SpatialGroupLtd/helm-charts</a>

## 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 132
Google Chrome 132
Mozilla Firefox 134

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

## Release Details

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### Notable Differences in 5.1.0

- Performance improvement when using certain Data Stores in a Session; MariaDB, Microsoft SQL Server and PostgreSQL/PostGIS.
- Features created on custom classes can now be exported.
- A new settings.properties parameter for adjusting the write batch size for Esri ArcGIS Services (datastore.arcgis.write.batch\_size).
- The structure of the software package (.zip) has been changed. There is no longer a root folder within the zip. This is to avoid permission issues when installing on Linux.

### Future Withdrawal Notices

- The following Built-in Functions will be withdrawn from 1Integrate 6.0.0:

Built-in Function	Alternative
http_request	http_request_v2
make_2d	change_dimension
make_3d	change_dimension
get_session_parameter_value	'Session Parameter Value' within the Rule Builder

## New Features in 5.1.0

ID	Description
MSINT-6757	JDBC Data Stores: Improve runtime performance by avoiding the need to query the database for the full schema for every data task
MSINT-6768	Update the header on the OpenAPI docs
MSINT-6811	Upgrade the Kubernetes client version
MSINT-6846	Esri ArcGIS Services: Expose parameter to change the default write batch size and introduce a batch write failure fallback retry flow
MSINT-6866	Upgrade to RHEL 9.5
MSINT-6919	Upgrade to WildFly 35

## Bugs Fixed in 5.1.0

ID	Description
MSINT-6398	MS SQL Server Data Store - data type mapping lost after configuring Copy To
MSINT-6629	Unable to export custom class created features
MSINT-6630	Attempting to export custom class created features on existing data store writes 0 features
MSINT-6631	Unable to export data to FGDB or GeoPackage whose primary key isn't an integer
MSINT-6664	When Ctrl+V pasting in a tasks name field on the session page, copying the latest word pastes the last session task
MSINT-6799	Collapse All does not work on the folder tree
MSINT-6826	NullPointerException when committing datastore with custom attribute
MSINT-6836	Committing to GeoPackage is causing the engine to fail
MSINT-6873	Regression: DWG data cannot be read

## Known Issues and Unresolved Bugs

ID	Description
MSINT-2628	Esri ArcGIS Server feature service returns GeoJSON in WGS84 regardless of data or 1Integrate SRS
MSINT-2681	ArcGIS WFS service returns error if non-spatial data is included
	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.
MSINT-6293	Restoring a data store based on a different custom encryption key causes the restore to fail
	Due to network latency issues, the combination of shared cache and files on disk for Kubernetes based deployments is not recommended for production. This can cause issues writing to certain file formats, e.g. GeoPackage and other file corruption issues

## Installation

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Follow the instructions in the [Installation Guide](#) 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 tab in the Administration page of the 1Integrate UI), 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. 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. 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.

NOTE: For 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

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## Documentation

To review product documentation such as Installation Guides, WebHelp and other release notes, please visit our website: <https://1spatial.com/documentation/1Integrate/>

## Support

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

To contact 1Spatial Support, please visit our website:

<https://1spatial.com/support-services/support/>

## Training

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

For training enquiries please contact your Account Manager or email: [training@1spatial.com](mailto:training@1spatial.com)