1Integrate

Release Notes
Version 5.0.0

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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.

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

Operating Systems

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

OS	Notes/Caveats
Red Hat Enterprise Linux 9	
Windows Server 2022	Microsoft Visual C++ 2022 64-bit Redistributable packages Download from this link and pick vcredist_x64.exe https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads

Application Server

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

Application Server	Notes/Caveats
WildFly 33.0.2.Final	Delivered as part of the 1Integrate installation

Java JDK

Java JDK
Eclipse Temurin 21.0.4+7-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. Warning: Do not use the default H2 database in production environments.

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: 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 130
Google Chrome 130
Mozilla Firefox 131

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

Release Details

Notable Differences in 5.0.0

- WebLogic has been withdrawn as an application server option (now WildFly only)
- WildFly has been upgraded to 33.0.2
- 1Integrate now supports Java 21
- The application platform has been modernised, addressing many security issues
- New support for SAML authentication
- New REST API endpoint for validating a Session
- PostgreSQL repository support upgraded to PostgreSQL 16
  - NOTE: Due to default permission changes since v15, the public schema is not recommended for the 1Integrate repository

Future Withdrawal Notices

- From 5.1 the structure of the software package (.zip) will change. There will no longer be a root folder within the zip. This is to avoid permission issues when installing on Linux.
- 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 5.0.0

ID	Description
MSINT-5787	Remove WebLogic from the code base
MSINT-6128	Upgrade to WildFly 33
MSINT-6148	UI changes to clarify refresh schema behaviour
MSINT-6469	Introduce REST endpoint to validate a session
MSINT-6606	1Integrate RHEL 9 support
MSINT-6614	Upgrade to Java 21
MSINT-6619	Upgrade to GDAL 3.9.2
MSINT-6643	Don't log missing Built-in arg description
MSINT-6657	Named lookup values causing a Null Pointer Exception for missing class
MSINT-6699	Upgrade PostgreSQL repo support to PostgreSQL 16
MSINT-6705	The Context-sensitive help for DSV 'field separator' has a typo
MSINT-6718	Support SAML authentication
MSINT-6766	Helm: Allow for mounting of a pre-created volume of extensions to allow them to be loaded from external storage like Azure blob/file storage or S3 bucket

Bugs Fixed in 5.0.0

ID	Description
MSINT-4855	report_invalid: invalid inclusion reported for CSV geometry, but not FGDB geometry
MSINT-6213	Regression: 1Integate Copy To mapping not taking database PKs into account during refresh preventing Data Store save
MSINT-6320	Class hierarchy is not inherited from Reference Data Store unless additional attributes are defined
MSINT-6321	Unable to select base class in an Open Data task
MSINT-6506	WFS: Contains doesn't work in Non-Spatial Filters

MSINT-6562	Have to reset Parameters in Rule using a Rule Template for duplicated (or copy and paste) Rules
MSINT-6586	Spamming the paste option in the resource tree only a few times can cause the creation of an exponential amount of resources
MSINT-6697	Copying a parent folder and pasting it into a child folder causes an infinite copy-paste loop.
MSINT-6722	Browsers with expired tokens stored cannot access the OpenAPI docs or load the login banner
MSINT-6758	JDBC Data Store; Handle null clob values

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.
	Since 4.0.0 the Google BigQuery Data Store is no longer part of core 1Integrate. It is available as an extension. Contact 1Spatial if you need it.
	Since 4.2.0 the Contextual Data Store is no longer part of core 1Integrate. It is available as an extension. Contact 1Spatial if you need it.
MSINT-6213	1Integate Copy To mapping not taking database PKs into account during refresh preventing Data Store save
MSINT-6293	Restoring a data store based on a different custom encryption key causes the restore to fail
MSINT-6630	Attempting to export custom class created features on an existing data store writes 0 features
MSINT-6799	'Collapse All' does not work on the Navigation Pane

Installation

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

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