



1Integrate

Release Notes Version 5.2.0

23/04/2025

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Contents

Introduction	3
Scope.....	3
Purpose of Release.....	3
Migration Guidance	3
System Requirements	4
Operating Systems	4
Java.....	4
Repository Database Platforms	4
FME Flow (formerly FME Server) Integration	4
Containerisation Support.....	4
Web Browsers	5
Release Details	5
Notable Differences in 5.2.0	5
Future Withdrawal Notices.....	6
New Features in 5.2.0	6
Bugs Fixed in 5.2.0	6
Known Issues and Unresolved Bugs.....	7
Installation	8
Product Documentation and Support.....	9
Documentation	9
Support	9
Training	9

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 9.5	
Windows Server 2022	Microsoft Visual C++ 2022 64-bit Redistributable packages Download from this link and pick vc_redist_x64.exe https://support.microsoft.com/en-gb/help/2977003/the-latest-supported-visual-c-downloads

Java

Java JRE
OpenJDK 21 – tested against latest available Eclipse Temurin at time of release (21.0.7+6-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 or test 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 1.30.10	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 the latest versions of Edge, Chrome and Firefox.

Release Details

Notable Differences in 5.2.0

- **New Data Capabilities:**
 - **Capability to Write OGC GeoPackage Non-Spatial Features as Attributes:** Adheres to the OGC GeoPackage Encoding Standard 1.2.
 - **Identification of True Curves:** Added a new built-in function that can identify geometries that were densified from curves during read from Esri File Geodatabase and GeoPackage data sources to enhance quality checks in compliance with National Emergency Number Association (NENA) Standards.
- **Non-Functional Enhancements for Cloud Deployments:**
 - **Significant Reduction in Container Size:** Optimised the Interface and Engine containers to use a more targeted deployment which reduces the overall attack surface and container sizes.
 - **Security Enhancements:** The containers for the latest 1Integrate release are now reissued every week with the latest OS packages
- **Repository Synchronisation Tool:** Repository Synchronisation Tool has been updated to allow for API key authentication which allows it to be used with SAML enabled environments
- **Rule Author's Experience Improvements:**
 - **Session Summary Report:** Overhauled the Session Summary dialog to match the Report dialog. Summary scoped reports will now be available here. The Summary Report download button has also been moved to the Session Summary dialog.
 - **Datastore Differentiation:** Clearly distinguish between Core, Extension, and Custom Datastores when presenting the installation's available Data Stores.
 - **Rule Authoring Enhancement:** Automatically open the list of available items when adding new built-in function, built-in operation or rule/action template nodes.
- **Service Installation Enhancements**
 - SAML is now a supported authentication option for service installations. An additional option in the settings.properties has been added to override the default location of the saml.keystore, if required.
 - Removed the ability to set JAVA_HOME from the service install scripts as this never reflected the Java install used by the installed 1Integrate service
- **Critical Bug Fixes:**
 - Fixed a critical regression that prevented 1Integrate from being able to read data from multiple schemas for the PostgreSQL and SQL Server data stores.
- WildFly 36.0.0.Final - Upgraded bundled Wildfly application server

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 5.2.0

ID	Description
	Summary Report and the ability to download it is now moved to the Task Summary section.
MSINT-7021	Support API Key authentication in Repository Synchronisation Tool
MSINT-6502	Improvement request: Open built-in/Template list on adding new built-in and template node
MSINT-5251	Differentiate between built-in Data Stores and custom ones
MSINT-6032	Identify True Curves in Esri File Geodatabase and GeoPackage data formats
MSINT-6744	OGC GeoPackage: Updated 1Integrate to write out non-spatial features as the GeoPackage 'Attribute' type rather than 'Feature'
MSINT-6832	(Beta Support) Allow FME Flow data store to read geometries as true 3D Note: An additional license is required for 3D support.

Bugs Fixed in 5.2.0

ID	Description
MSINT-6633	Unable to replace heightened geometry with result of make_2d or change_dimension builtins
MSINT-6925	1Integrate cannot run sessions with WKT extent when in Geodetic mode
MSINT-7022	Regression: 1Integrate 5.1 cannot Open Data from multiple schemas – Postgres & SQL Server
MSINT-6293	Restoring a data store based on a different custom encryption key causes the restore to fail – No longer blocking restoring of datastores with failing passwords. The password(s) will need to be manually entered before a datastore can be used.
MSINT-6714	Template defined with Name Labels 'A' & 'B', Rule defined with empty and 'other' Name Labels but UI reports errors
MSINT-6837	Regression: 1Integrate 5.0.0: Attribute name is already in use by geometry when restored 1Int 4.4.0 DS linked to Fixed Schema
MSINT-6844	Report on Values with Summary Scope not outputting to a report
MSINT-6939	FME Flow Data Store: Corrected the "Read Geometries As" XYZ & XYM options
MSINT-6940	FME Flow Data Store Allows "Enable full 3D Geometries" Regardless of License
MSINT-6941	Service: Service install doesn't get JAVA_HOME from the install script
MSINT-6986	Fix the use of SAML with a service installation

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-7035	Map viewer does not display features in GDA2020/ Australian Albers projection
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.
	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

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