



1Integrate

Release Notes

Version 5.3.0

23/10/2025

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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 9.6	
Windows Server 2022	Microsoft Visual C++ 2022 64-bit Redistributable packages

Java

Java JRE
OpenJDK 21 – tested against latest available Eclipse Temurin at time of release (21.0.8+9-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 1.33.2	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 5.3.0

Functional Enhancements

- **Enhanced Action Maps authoring** – Action Maps now support several combinations for the selection of rules and action pairs, speeding up their creation. This release provides the ability to include multiple rules in a single action map pair by either selecting a folder of rules or multi-selecting individual rules.
Note: Action Map JSON Report structure has changed to now support this additional functionality.
- **Ability to run sessions on Singleton Class without Opening Data** - Sessions can now run rules and actions on a Singleton class without opening data or schema to meet certain use-cases such as calling web services at the start of a session.
- **Enhanced TLS/SSL Certificate Support** - Additional TLS/SSL certificates can now easily be trusted for all outbound 1Integrate network requests without having to modify the JRE trust store or manage system properties manually. This is now available for on-prem installations and Kubernetes deployments through Helm Charts (v1.4.0+).
- **Support multiple cloud observability platforms** – Kubernetes deployments of 1Integrate can now be configured to send performance monitoring data to an Elastic APM endpoint or Azure Application Insights instance out of the box through Helm Charts (v1.4.0+).
- **split_string() changes** – The split_string built-in will now safely handle null string input, where previously a session error would occur. The built-in function now returns null if the input is null instead of an error.
- **Build Topology** – Build topology now uses the Data Store target class names (so class name changes are supported) and build topology errors are now available as part of the task report.

Non-Functional Enhancements

- **Security Enhancements:** Third party dependencies updated to ensure alignment with current security standards and mitigating potential vulnerabilities.
- **ODA Library** Has been upgraded to the latest version providing up to date support for DWG File format operations.

Critical Bug Fixes:

- Resolved a critical regression in Data Viewer displaying internal object attributes instead of the feature schema attributes. Data Viewer now correctly displays the feature schema attributes.

- Resolved a regression since v4 preventing Build Topology errors to be included in task reports. Topology errors are now correctly included in the Build Topology task report.

Note affecting all 1Integrate v5 Installations:

As of Java 21, the java.io.tmpdir system property can no longer be overridden programmatically. This affects the temp.directory configuration property that previously allowed custom temp directory settings.

Temporary file operations will continue to use the default system temp directory unless the property is explicitly set via JVM options on both the interface and engines (e.g. -Djava.io.tmpdir=your_prefered_temp_directory_path), provided in all deployment modes.

Alternatively, INTEGRATE_ENGINE_OPTS and INTEGRATE_INTERFACE_OPTS can be set as environment variables, ensuring those persist between installations as you will not need to edit the start-up scripts.

Future Withdrawal Notices

The following Built-in Functions will be withdrawn starting at 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 5.3.0

ID	Description
MSINT-1788	Action Map – Ability to include multiple rules as part of a rule/action pair by multi-selecting rules or selecting a folder of rules
MSINT-7207	Support easy configuration of additional trusted certificates
MSINT-6770	Update the ODA libraries to the latest versions
MSINT-6998	Support multiple observability platforms out of the box – Elastic APM and Azure App Insights

Bugs Fixed in 5.3.0

ID	Description
MSINT-6395	Build Topology task not finding modified Source class names, produces error
MSINT-6626	Attempting to create a custom class whose name starts with another makes the custom class vanish
MSINT-6725	Can't run rules and actions written against the singleton class
MSINT-7140	Cannot run a folder of rules or actions (or action maps) against Singleton class

MSINT-7170	Regression since 5.0.0 - Loss of user entity changes - Editing an object which has been moved by another user causes the save button to be unresponsive and changes cannot be saved
MSINT-7197	When no data is being opened before an apply actions task the error message is misleading.
MSINT-7232	Regression: Data viewer displays internal attributes of selected features only
MSINT-7248	Passing a null string into split_string causes a null pointer exception and stops the session
MSINT-6531	Regression: Topology error details and location aren't included in Build Topology Task Error Reports.

Known Issues and Unresolved Bugs

ID	Description
MSINT-7308	Ignite home is not relative to the temp directory
MSINT-7238	Error when opening data with heights for FGDB, Shapefile and MapInfo Tab data stores when 'Dissolve Holes' option is enabled
MSINT-7126	1Integrate sessions not stopping/completing with invalid Measures
MSINT-2628	Esri ArcGIS Server feature service returns GeoJSON in WGS84 regardless of data or 1Integrate SRS
MSINT-2681	ArcGIS Feature 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