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1Integrate

Release Notes
Version 4.1.0

04/07/2023

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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.

For this version, 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.

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-11.0.19)
WildFly 26.1.3.Final	Eclipse Temurin (jdk-11.0.19+7)

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	Only supported on WildFly application server.
PostgreSQL 12.4	Only supported on WildFly application server.
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.

Optional FME Desktop Integration

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

Component	Edition	Reason
FME Desktop 2018.1 (64-bit)	Professional Edition	• Bentley MicroStation DGN • Autodesk DWG/DXF
FME Desktop 2018.1 (64-bit)	Esri Edition	Formats listed above plus read or write • Esri Enterprise Geodatabase (ArcSDE) Requires installation of one of: • 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.
Kubernetes 1.25.5	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 114
Google Chrome 114
Mozilla Firefox 114

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 4.1.0

- The SOAP API has been withdrawn.
- Metadata Stores have been withdrawn.
- New Session Task Templates allow you to add a common set of tasks to multiple Sessions and edit them in one place.
- The MapInfo TAB Data Store can now write to MIF/MID format.
- You can now add a Single Predefined Region as an Open Data Task Extent Override.
- Reported geometries now appear on the Map Layers list.
- You can now choose to always report non-conformances from an Apply Action Map task.
- The Rule and Action builder has improved performance when navigating large Rules and Actions.
- Related Videos now appear on various pages in the online docs e.g. the 'Interface' page

New Features in 4.1.0

ID	Description
MSINT-1733	Web Browser Sessions will Timeout after 30 mins for security reasons
MSINT-1809	Measure Built-In Functions will throw an error when passed a non-measured geometry
MSINT-3451	New Session Task Templates allow sets of tasks to be defined once and used in multiple sessions
MSINT-3875	New Open Data Task Extent Override option: Single Predefined Region
MSINT-4816	Restore error messages appear in snackbar
MSINT-4941	API documentation improved to clarify different types of reports in an action
MSINT-5010	Long running tasks such as deleting many entities present a 'busy' indication
MSINT-5076	Deprecated SOAP API removed
MSINT-5146	Inline docs for operations and functions improved
MSINT-5168	Ability to add a task at a selected point in a Session
MSINT-5172	Deprecated Metadata Store removed
MSINT-5177	Map Viewer: Reported geometries now appear on the Layers list
MSINT-5180	Non-Spatial Filters: Use underscores to replace spaces in Class and Attribute names
MSINT-5281	Improved error message when deleting entities that are in use
MSINT-5285	Collapse all / expand all Data Store Classes
MSINT-5306	Implemented visual indicator for Cut objects in the navigation pane
MSINT-5318	Added support for writing to MapInfo MIF/MID file format via the MapInfo TAB Data Store

MSINT-5327	Enable/Disable all button on Data Stores now only applies to the visible Classes
MSINT-5389	Update API key REST API to validate key name uniqueness
MSINT-5505	Session task tooltips to show the task type and name
MSINT-5524	Security: Prevention of HTML Content Injection throughout the UI
MSINT-5525	Security: Improved Input Validation
MSINT-5565	Apply Action Map Task: Option to always report on the Rule non-conformances
MSINT-5587	GeoJSON Data Store: New parameter for reading all geometries as 2D
MSINT-5631	New Cast option added to Rules and Actions to allow selection of attributes from a specific class
MSINT-5643	Heighted geometries are heighted on the map
MSINT-5686	Rule node previews are more legible
MSINT-5707	DSV Data Store: Added Integer support
MSINT-5720	Prevent soft-closing by clicking outside of dialogs

Bugs Fixed in 4.1.0

ID	Description
MSINT-2305	Scale_and_rotate can cause exceptions which stop the session
MSINT-3400	Session Failover can result in "Duplicate Key Value Violates Unique Constraint" Database Error
MSINT-3775	Schema Transform DerivedAttributeMapping should handle null entries
MSINT-3806	ends_of builtin incorrectly checks for coincident ends of target line
MSINT-4655	Data Transformation errors when using a database for schema mapping and some mappings are null
MSINT-4809	Backup mechanism should include folder metadata
MSINT-5107	Only allow supported Data Stores to be selected for a Commit task
MSINT-5158	Improve the error message for a missing "Copy To" Mapping
MSINT-5213	Long comment on Session task is overlapping with edit and delete icons
MSINT-5220	When using drag and drop in a Session the user is not warned about dependencies
MSINT-5271	No Data Available info display for Download Commit Destination Files
MSINT-5276	Stop expression parsing being logged in log files
MSINT-5345	Don't allow API Keys to be generated with unknown Permissions
MSINT-5352	Deleting an empty folder throws error messages
MSINT-5420	Null Pointer Exception when syncing 1Integrate from a local checkout folder
MSINT-5437	Used item can be deleted from the navigation pane
MSINT-5440	Unable to interact with Session controls after an error in the Session
MSINT-5452	Attempting to download a file from Copy To config when the credentials have not been set creates an error that fills the screen

MSINT-5464	Running a non-spatial filter against a Data Store containing tables with two spaces in the class name will not filter anything
MSINT-5507	Adding a parameter to a new template shows "Name in use"
MSINT-5520	Rule/Action Templates do not show the correct Classes and Names when first added to a new Rule/Action
MSINT-5528	Unable to set engine labels on Linux via the start script
MSINT-5597	Can't rename Sessions with Rule folder reference
MSINT-5606	File data created by a Copy To task not always deleted.
MSINT-5607	Built-in Functions with at least 2 optional parameters can be configured with unlimited parameters
MSINT-5616	Task Report has Incorrect count on download results
MSINT-5630	Error when trying to rename Rule or Action that uses a Template
MSINT-5633	Unable to copy multiple selected Actions, Sessions and Rules
MSINT-5634	Add UI for displaying items included in a multiselect
MSINT-5635	Improved shift select behaviour in the resource tree
MSINT-5636	Blinking Text Cursor Jumps to End in Right-Hand Menu Text String Box
MSINT-5637	Classes with no Attributes stop "Copy To" schema from refreshing
MSINT-5638	FGDB Classes containing attributes with no name are not being read in
MSINT-5684	The previews for Difference show the values the wrong way round
MSINT-5699	FME Server Data Store: Handle unexpected folders
MSINT-5712	No 1Integrate logs produced under WebLogic
MSINT-5744	Test Connection EJBException shows full stack instead of friendly message

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-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.
	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.

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 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 [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.

When performing an upgrade of 1Integrate 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 1Integrate 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: 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