Release Notes

Server Edition

Version 2.1.1

24 June 2019

Contents

1 Introduction

1.1 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.

1.2 Purpose of Release

A standard maintenance release of 1Integrate for ArcGIS, Server Edition

A well-planned implementation of this release will minimise disruption to a live environment. Read these Release Notes thoroughly before installation.

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 the required edition of 1Integrate for ArcGIS before installing this release
- Ensure no users are using the 1Integrate for ArcGIS installation
- As a precaution, back up your rules and actions
- Test the release on your test platform

1.3 System Requirements

Before proceeding with your installation, ensure you have met the system requirements and installed all necessary Esri applications.

Other prerequisite software versions can be used (e.g. newer browser versions), but support requests will only be progressed if the issue can be replicated on one of the supported versions.

Operating System	Windows 7, 10, Server 2012
Java Runtime Environment	JRE 1.8.0_141 64-bit
Visual C++	Visual C++ Redistributable Packages for Visual Studio 2013 (available from the Microsoft website)
Microsoft SQL Server (optional)	Optional to use as metadata service repository for storing rules.
Browser	One of the following: • Chrome version 75 or newer • Mozilla Firefox version 39 or newer • Internet Explorer version 10 or 11
Esri Desktop	One of the following: • ArcMap 10.5.1 • ArcGIS Pro 2.0

1.3.1 Esri Components

A number of Esri applications must be present on the machine on which you are installing 1Integrate for ArcGIS. For help installing these components, please refer to Esri documentation.

Required on the server:

- ArcGIS Enterprise 10.5.1
- ArcGIS WebAdaptor for IIS 10.5.1
- Portal for ArcGIS 10.5.1
- Web App Builder for ArcGIS 2.0 (if using within web apps)

Optional (interface components):

- ArcMap 10.5.1
- ArcGIS Pro 2.0

1.3.2 ActiveMQ

Active MQ must be installed and running on the machine on which you are installing 1Integrate for ArcGIS.

The Active MQ software and installation instructions can be downloaded from the Apache Software Foundation website.

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2 Release details

2.1 Notable differences since 1Integrate for ArcGIS: Server Edition 2.0

- Indexing of non-spatial attributes
- Support for related tables
- This version does not include the 'Mobile Edition' SOI component.

2.2 Previous releases

2.2.1 Notable differences from 1Integrate for ArcGIS 1.6

- Support for reading and processing measured LRS data (not write yet)
- New built-in functions for LRS data
- New REST API
- New generate_UUID built-in
- Metadata service runs off SQL Server database

2.2.2 Notable differences from 1Integrate for ArcGIS 1.5

- Requires Java 1.8 (Check the upgrade instructions below to ensure the correct version of Java is being used).
- This release does not provide support for ArcGIS 10.3.1, please speak to 1Spatial support if you require support for ArcGIS 10.3.1
- Separate release notes and version numbers for Desktop Edition and Server/Mobile Edition

2.2.3 Notable differences from 1Integrate for ArcGIS 1.4

- (from 1.5.011) - Performance improvement for writing data in Desktop Edition.
- Widget and Add-in control improvements: Warn user and disable rules which don't apply to current data.
- Widget control improvements: Enable all rules by default and remember rules selection for next session (per Windows user for desktop, per browser for Web).
- Support for ArcGIS 10.5
- Support for Geometric Network data
- Several user interface improvements to improve rule author efficiency and clarity
- Licensing – allow machines to change network and enable licenses that work in virtual environments such as VDI. Old licenses should continue to work but to use the new licenses then first delete the license then delete the hardware_hash files in C:\Users\<username>\Documents\hash\ before starting the 1Integrate for ArcGIS services. This will generate a new hash from which a new license can be created.

2.3 New functionality in this release

2.1.1	
ESRI-1551	Performance: Automatically index any non-spatial attributes that are used as primary identifiers within rules or actions.
2.1.0	
ESRI-1476, ESRI-1477, ESRI-1478	Support for related tables
2.0.0	
ESRI-1391	LRS support for reading and processing measured geometries (no write yet)
MSINT-1462 etc.	New LRS built-in functions • Measure_from_point • Point_from_measure • Set_measure • Line_segment_from_measures • Get_max_measure • Get_min_measure • Is_measured_line_monotonic
ESRI-1337	New REST API
ESRI-1335	Metadata Service support for MSSQL
MSINT-1475	New generate_UUID built-in
1.6.0	
ESRI-1148	Support ArcGIS Pro 2.0 for Server and Desktop Editions
ESRI-1318	Support Java 1.8 as a pre-requisite
MSINT-1401	New built-in functions, see online help for details: create_geometry_from_wkt difference_by_dimension find_small_rings get_job_extent inner_rings jaro_winkler_similarity line_bearing_at_point max min point read_sequence round_geom rule_hotspot_geometry segments set_topology_edge_drag_mode to_timestamp tsort_* (a number of built-ins specifically for topological sorts) vertices
1.5.0	
ESRI-1148	Support ArcGIS 10.5 for Desktop Edition
ESRI-1149	Support ArcGIS 10.5 for Server and Mobile editions
ESRI-1182	Virtual machine support: Allow control of license checks to enable licensing on VDI
ESRI-1259	Support Geometric Network data

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ESRI-1164	In Add-ins and Widgets, warn user and allow to continue when some rules cannot be run due to schema mismatch
ESRI-1165	In Add-ins and Widgets, by default enable all rules and remember which are checked for next time
ESRI-1005	Rule Author: Introduce vertical lines to tree structure in rules and actions
ESRI-1064	Rule Author: All deletes must require user confirmation first
ESRI-1159	Rule Author: Can rule names/ellipsis be extended to full width of the rules panel
ESRI-1160	Rule Author: Selecting a rule pans rule tree back to top
ESRI-1168	Rule Author: Make r.m.b context menu work even when node is in edit mode.
ESRI-1171	Rule Author: When adding a new node, make it start editable and with dropdown open
ESRI-1174	Rule Author: In tree display, make ruleset names and package names bold
ESRI-1179	Rule Author: Make it clear when toggle switches have input focus
ESRI-1183	Rule Author: Improve Descriptions for quickrule spatial predicates
ESRI-1208	Rule Author: Rule readability: Add 'IF THEN' and 'AND, OR' text along vertical lines between nodes
ESRI-1210	Rule Author: Make node drop lists longer
ESRI-1211	Rule Author: Allow pasting a node on to a node of the same type to act as 'add sibling'
ESRI-1212	Rule Author: When a node is expanded, include the 'collapsed' description above the editable details
ESRI-881	Rule Author: Visual indicator for when a rule's link to an action is stale.

2.4 Bugs Fixed in this release

2.1.0	
ESRI-1501	Heighted (x,y,z) data not being written
ESRI-1493	Calculating the intersection of two almost identical geometries can return null
ESRI-1488	Data is silently not read if the `maxRecordCount` permitted by the feature server is less than 100
ESRI-1480	Actions run via the REST API are not being run in the correct order
ESRI-1512	Build topology processing task run at end of session instead of start
ESRI-1252	Date values not being read or written correctly
2.0.0	
ESRI-1360	Installers should halt when they detect a Java 7 environment
ESRI-1376	Remove confusion on version number being installed in installer
1.6.0.3	
ESRI-1366	ArcGIS Pro Crashes when Projections in U.S. Feet.
1.6.0.2	
ESRI-1315	Inner rings not being properly handled in ArcGIS Pro
ESRI-1319	Not all features being processed for Desktop Edition on ArcGIS Pro
ESRI-1201	1Integrate for ArcGIS - Desktop - Edits are not all being applied within edit session
1.5.0.11	
ESRI-1051	Desktop Edition: ArcMap write performance very slow and fails to complete when full extent is used
ESRI-1232	ArcGIS Pro using Desktop extension gets stuck when Validation is run on rules with

	schema mismatches
ESRI-1290	1Integrate for ArcGIS - Mobile Edition - SOI Does not work when projection unit is FEET
ESRI-1142	ArcMap Desktop/Server - ArcMap doesn't stop user from running multiple sessions.
ESRI-1282	Clarify terminology: Use the official word Add-ins instead of Widgets for Desktop where appropriate
ESRI-1296	Rule Author: Static Value will not retain a single space as the value.
ESRI-1199	Rule Author - some blank string nodes are marked as invalid, even though they are not
1.5.0.7	
ESRI-1281	ArcGIS Pro 1.4.1 Add-in: Enhancement tab not displaying enhancement actions
ESRI-592	Improve consistency between UI and help pages
ESRI-724	Metadata Service Installer: remove unused Portal and ArcGIS Online credentials options.
ESRI-826	Rule Author: Changing saved schema doesn't set unpublished flag
ESRI-1064	Rule Author UI: All delete operations should require user confirmation
ESRI-1087	Licenses and installers should refer to 'processes' not 'workers'
ESRI-1112	New item popup should make name field take input focus
ESRI-1152	00020680 1Integrate for ArcGIS Desktop: Check license more frequently
ESRI-1156	Allow license to work when the network adaptor changes (e.g. moving from ethernet to wifi)
ESRI-1159	Rule Author UI: Rule names do not extend to full width of the rules panel
ESRI-1181	ArcGIS for Desktop license: Check a larger range of ids to improve security
ESRI-1200	Renaming a package should not break rule->action references within it
ESRI-1241	Built-in function child nodes marked as invalid when adding other builtin functions with different number of parameters
ESRI-1258	Get Schema does not support layers that are nested more than two levels deep

2.5 Known Issues and Unresolved Bugs

ID	Description
ESRI-1514	A pre-populated attribute value cannot be updated to null
ESRI-1335	Metadata Svc support for MSSQL
ESRI-1274	Add-in crashes ArcGIS Pro when attempting to fetch rules from a HTTPS server connection
ESRI-1113	Widget: ArcGIS Pro Add-in: Login dialog wrongly scaled on high density screen
ESRI-864	Rule Author UI - Uploading ruleset with unknown schema causes errors
ESRI-873	Rule Author UI - Cut and Paste of a Package to its child results in an error

3 Special upgrade instructions

3.1 Java 1.8

This version of 1Integrate for ArcGIS requires Java 1.8 on the machine. Note that if Java 1.7 also exists on the machine (e.g. if upgrading from a 1Integrate for ArcGIS version 1.5 or older) then the 1Integrate for ArcGIS Windows services may not start if the installation continues to use the 1.7 version of Java. To check which version of Java is being used by the services, check the Windows registry using the regedit application: Go to "HKEY_LOCAL_MACHINE" -> "SOFTWARE" -> "JavaSoft" -> "Java Runtime Environment", select "CurrentVersion" and set the value to be 1.8, then close regedit and restart the 1Integrate for ArcGIS Windows services.

3.2 Licenses

Existing product licenses will continue to work with this new version. If you have pre v1.5 licenses but need them to handle changing the machine's network then first delete the hardware_hash files in C:\Users\<username>\Documents\hash\ before starting the latest 1Integrate for ArcGIS services. This will generate a new hash from which a replacement license can be re-created by 1Spatial support.

4   1Spatial Product Assistance

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

To contact 1Spatial Support, please visit our website: http://www.1spatial.com/services/support.

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.