



## Release Notes

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## 1Exchange

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Version 2.1.4

18 October 2019

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# 1 Introduction

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## 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

This is a standard maintenance release of 1Exchange.

## 1.3 System Requirements

### 1.3.1 Operating system

- Microsoft Windows Server 2012
- Oracle Linux 7.4

### 1.3.2 Hardware

Minimum hardware configuration:

- Minimum of 4Gb RAM
- Minimum of 2 CPU cores
- Hardware is dependent on required response times and throughput. Heavily used multi-user systems will need higher server specifications, please contact 1Spatial support (see below) for guidance on server configurations.

### 1.3.3 3rd Party Software

#### 1.3.3.1 Database

- Oracle Database 11g Release 2
- Oracle Database 12c Release 1

The database requires Oracle with the locator option, unless automatic job extent growing needs to be enabled, in which case an Oracle Spatial license is needed, which is usually an extra cost option. This this page for more information about growing job extents:

[https://1spatial.com/documentation/1SMS/Topics/1Exchange/1EXC\\_Managing\\_Policies.htm](https://1spatial.com/documentation/1SMS/Topics/1Exchange/1EXC_Managing_Policies.htm)

#### 1.3.3.2 Application Server

The following application servers are supported (Note that Wildfly is provided as part of the installation package, and Oracle WebLogic is a pre-requisite that must be installed beforehand):

- Oracle WebLogic Server 12.2.1.3 (Note: 1Exchange must be installed on a domain without SOA components installed), or
- Wildfly 17.0.1 (Windows only), provided as part of the installation

### 1.3.3.1 FME Server versions

The following versions of FME Server have been tested. Other versions are useable but issues cannot be fixed unless they are replicated on the tested versions of FME Server

- For FME-only Exchange Policies: FME Server 2018
- For Adaptors with Snowflake Exchange Policies: FME Server 2016

### 1.3.3.2 Browser Support

This product works with most of the recent versions of Chrome, Firefox and Internet Explorer. The specific versions that have been tested for this release are:

| Browser                        |
|--------------------------------|
| Microsoft Internet Explorer 11 |
| Google Chrome 77               |
| Mozilla Firefox 57             |

Other browser clients may be used, but support requests will only be progressed if the issue can be replicated on a supported browser.

## 2 Release details

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The following sections provide a description of this release of 1Exchange.

### 2.1 New Functionality in this release

|  |  |
|--|--|
| 2.1.3  |  |
| MSCOMMON-897                                       | Support Wildfly 17.0.1   |
| MSEXCHANGE-937<br>MSEXCHANGE-935<br>MSEXCHANGE-936 | Security: Various security improvements including whitelisting of file types that can be uploaded.                             |
| 2.1.0  |  |
| MSEXCHANGE-869                                     | Exchange policies can use FME Server directly without using GML and Snowflake GO Loader and GO Publisher                       |
| 2.0.0  |  |
| New platform support                               | - Wildfly 11.0.0   |
| 1.3.0  |  |
| New platform support                               | - Oracle WebLogic 12.2.1.3<br>- Java 8 JDK 1.8.0 update 141 (64-bit)   |
| 1.2.0  |  |
| MSEXCHANGE-848                                     | Pass validation report XML and job metadata to outbound FME adaptor  |
| 1.1.107  |  |
| MSEXCHANGE-839                                     | New 1SMS online help accessible from all products  |
| 1.1.104  |  |
| MSCOMMON-497                                       | Remove redundant JDK selection from installer and warn users when installing into a domain having an unsupported Java version. |
| 1.1.103  |  |
| MSCOMMON-540                                       | Support for Oracle Linux 6.7   |
| MSEXCHANGE-804                                     | Allow 1Exchange to have multiple policies that work with different database schemas  |

### 2.2 Bugs Fixed in this release

|                |   |
|----------------|---|
| 2.1.4          |   |
| MSEXCHANGE-939 | Whitelist for media type being ignored  |
| 2.1.2          |   |
| MSCOMMON-875   | Upgrade to newer hibernate version (performance, stability)                                   |
| 2.1.1          |   |
| MSCOMMON-869   | 1SMS on WildFly doesn't support changing the LDAP username attribute from CN                  |
| MSEXCHANGE-915 | Disable the Snowflake radio button in the admin page when no snowflake products are installed |
| 1.3.1          |   |

|                |   |
|----------------|---|
| MSCOMMON-707   | Log files not being populated for WebLogic 12.2.1.3   |
| 1.1.107        |   |
| MSEXCHANGE-838 | Change GML packages are overwritten irrespective of filename.   |
| 1.1.106        |   |
| MSEXCHANGE-835 | 20559: Exchange package creation fails when uploading attachment that already exists: Now replaces existing attachments with the same name.   |
| 1.1.105        |   |
| MSEXCHANGE-822 | The Admin UI is not showing the configured FME URLs   |
| 1.1.104        |   |
| MSCOMMON-556   | Authentication Provider Setup is failing to connect to a SSL enabled Admin Server because is not possible to set the protocol to t3s. (Note, the SSL trust certificate must be installed in JDK or WebLogic trust store before installing the authentication providers or the connection to WebLogic will hang indefinitely with no feedback) |
| 1.1.100        |   |
| MSCOMMON-444   | Improve resilience by removing the dependency on having a constantly running AdminServer  |
| MSINT-169      | Support Java 1.7 update 80  |
| 1.0.107        |   |
| MSEXCHANGE-746 | UI for entering job extraction min and max extents should present the fields in a + shape.  |
| MSEXCHANGE-721 | Growing job extents fails when features to grow are points  |
| MSEXCHANGE-723 | MBRs passed in to the UI and SOAP API are not validated   |
| MSEXCHANGE-728 | Starting 1Exchange when there are no GP or GL configurations or adaptors causes incorrect error message   |
| MSEXCHANGE-726 | When loading data via the adaptor, need to pass in both gml and modified versions of the extracted data to help when creating the change-only file.   |

## 2.3 Known Issues and Unresolved Bugs

| ID             | Description  |
|----------------|--|
| MSEXCHANGE-901 | On Wildfly, if the server is shut down when trying to apply changes uploaded to a job then the job gets stuck in uploaded.   |
| MSEXCHANGE-897 | On Wildfly, 1Exchange fails to extract features if they contain a with non-printable character (e.g. backspace) in a string attribute.   |
| MSEXCHANGE-866 | 1Exchange requires increase in domain JTA timeout from 30 seconds when Grow Extents uses very large geometries.  |
| MSEXCHANGE-865 | <p>GO Publisher errors encountered with WebLogic 12.2:<br/> <code>java.sql.SQLRecoverableException: Closed Connection</code></p> <p><u>Known workaround:</u><br/>           Force WebLogic to use a previous JDBC driver version.<br/>           To tell WebLogic 12.2 to use the 12.1 driver, add it to the PRE_CLASSPATH environment variable in your domain's setUserOverrides file (create if not present). For example:<br/> <code>set PRE_CLASSPATH=C:/oracle/weblogic122130/user_projects/domains/domain/drivers/ojdbc7.jar</code><br/>           It does not matter where on the file system the file is placed, just so long as the location can be accessed via the user running the WebLogic process. However, it may be neater to keep it contained within the 1Exchange domain.</p> |

|                |  |
|----------------|--|
|                | Note: In a clustered environment, this will need to be repeated for each node.   |
| MSEXCHANGE-688 | There is no restriction on a worker being able to delete a workflow managed job through the Exchange UI.   |
| MSEXCHANGE-680 | Cannot login to Exchange (or any other components) in IE9 if browser is on a Windows Server machine that has IE Enhanced Security Configuration enabled. |
| MSEXCHANGE-657 | You need to refresh the browser to see newly deleted package disappear on a clustered environment  |
| MSEXCHANGE-656 | You need to refresh the browser to see newly created package on a clustered environment  |
| MSEXCHANGE-655 | UI: You need to click on a package to update its status correctly  |
| MSEXCHANGE-645 | Exchange should return an error if it finds the incorrect geometry type in the GML file  |
| MSEXCHANGE-637 | UI: Submit features button not visible until changes attachment is added   |
| MSEXCHANGE-632 | UI: No adaptor details are shown in the Policy Metadata  |
| MSEXCHANGE-631 | No validation on the FME Adaptor URL on the admin page   |
| MSEXCHANGE-622 | Unable to remove previous go publisher products when configuration is wrong and a job gets stuck   |
| MSEXCHANGE-618 | Consistency of timestamp logging in Exchange.log could be better   |
| MSEXCHANGE-617 | UI: Slide out panel causes display issues when the browser is not maximised  |
| MSEXCHANGE-607 | temporary files created in ExchangeRestServiceImpl.java do not get cleaned up  |
| MSEXCHANGE-606 | Logging in to the admin page redirects to the main UI  |
| MSEXCHANGE-494 | Unable to submit secondary geometry points if the srsDimension is not set on the point   |
| MSEXCHANGE-485 | UI: Exchange Policy not remembered when extracting multiple times  |
| MSEXCHANGE-425 | Race condition when starting multiple instances of 1Exchange at the same time  |
| MSEXCHANGE-423 | Logs filled with harmless 'NullPointerException in PublishCallbackProxy.setStatus'   |
| MSEXCHANGE-253 | Add more error message in callback response.   |
| MSEXCHANGE-246 | Can only extract extra referenced features two steps away.   |

## 2.4 Upgrading from 1.1.100

Due to an issue found where clearing a managed server's listen address causes NPEs in the security token verification code, there is a requirement to replace the current ms-common-weblogic-security-provider.jar.

If you are installing into a newly created WebLogic domain then ensure that you first use the latest installer to install the authentication providers. For more information, see the details in the release notes for previous releases of 1Exchange.

## 3 Providing Feedback

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

1Spatial Support is a dedicated support channel to users of the software to raise bugs and ask questions specific to 1SMS.

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

Maximise the value of this release with 1Spatial training courses. For training enquiries please contact your Account Manager or email: [training@1spatial.com](mailto:training@1spatial.com).



## 4 Oracle JDBC Driver Distribution License Terms

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This 1Spatial product when deployed on Wildfly includes Oracle JDBC drivers which can fall within these license terms:

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