



## Release Notes

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## 1Exchange

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Version 2.2.1.1

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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 2019
- Oracle Linux 7.8

### 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 for guidance on server configurations.

### 1.3.3 3rd Party Software

#### 1.3.3.1 Database

- Oracle Database 19c 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 18.0.1 (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 2021.2.5.0
- For Adaptors with Snowflake Exchange Policies: FME Server 2021.2.5.0

### 1.3.3.2 Browser Support

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

Browser
Microsoft Edge 107
Google Chrome 107
Mozilla Firefox 106

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

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

### 2.1 New Functionality in this release

2.2.1.1	
MSEXCHANGE-962	Update 1Exchange FME support to 2021.2.5.0
MSEXCHANGE-963	FME Adaptor - option to overwrite features.zip
MSEXCHANGE-967	Remove "nested aggregate" union approach from grow extents
MSEXCHANGE-970	Avoid running grow extents within a JTA transaction
MSEXCHANGE-971	Avoid 1Exchange policy adaptor parameters reordering on save
2.2.0	
MSEXCHANGE-928	Pass job-metadata.xml to inbound FME Adaptor (to enable address points to be added to field survey jobs)
MSEXCHANGE-947	FME Adapter support updated (Adaptors with Snowflake Exchange Policies: FME Server 2018)
New platform support	<ul style="list-style-type: none"> <li>- Oracle Database 19c (11g/12c no longer supported)</li> <li>- Java 8 JDK 1.8.0 update 271 (64-bit)</li> <li>- Wildfly 18.0.1</li> <li>- Windows Server 2019</li> <li>- Oracle Linux 7.8</li> </ul>
MSEXCHANGE-928	Pass job-metadata.xml to inbound FME Adaptor (to enable address points to be added to field survey jobs)
MSEXCHANGE-947	FME Adapter support updated (Adaptors with Snowflake Exchange Policies: FME Server 2018)
New platform support	<ul style="list-style-type: none"> <li>- Oracle Database 19c (11g/12c no longer supported)</li> <li>- Java 8 JDK 1.8.0 update 271 (64-bit)</li> <li>- Wildfly 18.0.1</li> <li>- Windows Server 2019</li> <li>- Oracle Linux 7.8</li> </ul>
2.1.3	
MSCOMMON-897	Support Wildfly 17.0.1
MSEXCHANGE-937 MSEXCHANGE-935 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	<ul style="list-style-type: none"> <li>- Wildfly 11.0.0</li> </ul>
1.3.0	
New platform support	<ul style="list-style-type: none"> <li>- Oracle WebLogic 12.2.1.3</li> </ul>

	- 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-865	<p>GO Publisher errors encountered with WebLogic 12.2:  <code>java.sql.SQLRecoverableException: Closed Connection</code></p> <p><u>Known workaround:</u>            Force WebLogic to use a previous JDBC driver version.            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:  <code>set PRE_CLASSPATH=C:/oracle/weblogic122130/user_projects/domains/domain/drivers/ojdbc7.jar</code>            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.            Note: In a clustered environment, this will need to be repeated for each node.</p>
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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