



Release Notes



1Workflow

Version 2.1.0

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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

This is a full standard release that adds additional functionality to the previous release, see below for details.

1.3 System Requirements

1.3.1 Operating System

This version of 1Workflow is supported on the following operating systems:

- 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 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 Oracle database requires:

- Oracle Workspace Manager option
- 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

1.3.3.2 Application Server and Middleware

- Oracle WebLogic Server 12.2.1.3 either:
 - Standard edition
 - Enterprise edition (Enterprise Edition only needed if clustering multiple WebLogic servers for resilience and scalability)
 - WebLogic Suite Server 12.2.1.3 (WebLogic Suite only needed if clustering multiple WebLogic servers for resilience and scalability OR for more cost effective processor licensing of BPEL Process Manager)
- Oracle BPEL Process Manager.

Note that BPEL Process Manager can be purchased either standalone, or as an option to Oracle WebLogic Suite. It is usually more cost effective to purchase Oracle WebLogic Suite and add the BPEL process engine option, rather than to purchase WebLogic Standard or Enterprise and add a standalone BPEL Process Manager. Please speak to your Oracle license supplier for advice.

Other components controlled by 1Workflow can be installed on Wildfly, but 1Workflow must still be installed on the pre-requisites listed above

1.3.3.3 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 69
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.

1.4 1SMS Components Compatibility

The following combinations of components have been tested for compatibility (on Windows Server 2012, WebLogic 12.2.1.3, Wildfly 11.0.0, Oracle database 12c or 11g):

1SMS Weblogic Installer 2.0.0 1Workflow 2.0.0/2.1.0 1Workflow_Worklist 2.0.0/2.1.0 1SMS Wildfly Installer 2.0.0 1Exchange 2.0.0 1Plan 2.0.0 1Transact 3.0.0 1Validate 2.0.0	1SMS Weblogic Installer 2.0.0 1Workflow 2.0.0 1Workflow_Worklist 2.0.0 1Exchange 2.0.0 1Plan 2.0.0 1Transact 3.0.0 1Validate 2.0.0	
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The following combinations of components have been tested for compatibility (on Windows Server 2012, WebLogic 12.2.1.3, Oracle database 12c or 11g):

1SMS Installer 1.1.134 1Plan 1.7.2 1Workflow 1.3.2 1Workflow_Worklist 1.3.2	1SMS Installer 1.1.133 1Exchange 1.3.1 1Plan 1.7.1 1Transact 2.2.3 1Validate 1.7.1 1Workflow 1.3.1 1Workflow_Worklist 1.3.1	1SMS Installer 1.1.132 1Exchange 1.3.0 1Plan 1.7.0 1Transact 2.2.2 1Validate 1.7.0 1Workflow 1.3.0 1Workflow_Worklist 1.3.0
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The following combinations of components have been tested for compatibility (on Windows Server 2008/2012, WebLogic 12.1.3, Oracle database 12c or 11g):

1SMS Installer 1.1.132 1Exchange 1.2.1 1Plan 1.6.0 1Transact 2.1.209 1Validate 1.6.0 1Workflow 1.2.1 1Workflow_Worklist 1.1.115	1SMS Installer 1.1.132 1Exchange 1.2.0 1Plan 1.5.0 1Transact 2.1.209 1Validate 1.5.0 1Workflow 1.2.0 1Workflow_Worklist 1.1.114	1SMS Installer 1.1.131 1Exchange 1.1.108 1Plan 1.4.2 1Transact 2.1.209 1Validate 1.5.0 1Workflow 1.1.112 1Workflow_Worklist 1.1.114
1SMS Installer 1.1.130 1Exchange 1.1.107 1Plan 1.4.0 1Transact 2.1.208 1Validate 1.4.2 1Workflow 1.1.112 1Workflow_Worklist 1.1.112	1SMS Installer 1.1.129 1Exchange 1.1.107 1Plan 1.3.114 1Transact 2.1.208 1Validate 1.3.1 1Workflow 1.1.111 1Workflow_Worklist 1.1.112	1SMS Installer 1.1.120 1Exchange 1.1.104 1Plan 1.3.113 1Transact 2.1.206 1Validate 1.1.110 1Workflow 1.1.110 1Workflow_Worklist 1.1.111
1SMS Installer 1.1.110 1Exchange 1.1.100 1Plan 1.3.107 & 1.3.108 1Transact 2.1.202 & 2.1.202 1Validate 1.1.104 & 1.1.106 1Workflow 1.1.107 & 1.1.107 1Workflow_Worklist 1.1.108		

2 Release Details

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

2.1 Special Instructions

- **WARNING** – this release requires a change for OSGB’s use of the downstream change listener. The API to the listener has additional parameters and a generic namespace in the WSDL.
- 1Workflow must be installed on a WebLogic domain with SOA components installed
- If installing other components on WebLogic, 1Exchange must be installed on a domain without SOA components installed and all the other 1SMS family of products can be installed in either domain. We recommend installing them alongside Workflow on the domain with SOA components so that in future when 1Exchange is upgraded to run on any domain then only 1Exchange needs to be redeployed.
- 1Exchange, 1Plan, 1Transact and 1Validate can be installed on Wildfly, but will be controlled by 1Workflow running on WebLogic.
- While it is recommended that there are no in-progress jobs when performing an upgrade, it should be possible to upgrade when there are in-progress jobs. Before upgrading it is important to ensure that all in-progress jobs are in a static state and are not currently being processed by the system i.e. ensure that all activated jobs have moved to prepared or that all submitted jobs have moved to completed/invalid /quarantined/conflicted.

2.1.1 Workaround for GO Publisher Error

There is a known problem (MSEXCHANGE-865) with 1Exchange in Weblogic 12.2 where GO Publisher occasionally encounters the following error:

```
java.sql.SQLRecoverableException: Closed Connection
```

In order to work around this, force the WebLogic instance running 1Exchange 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:

```
set PRE_CLASSPATH=C:/oracle/weblogic122130/user_projects/domains/domain  
/drivers/ojdbc7.jar
```

It does not matter where on the file system the file is placed, 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.

2.1.2 Upgrading from 2.0.0 or lower

WARNING – this release requires a change for OSGB’s use of the downstream change listener service. The API to the service has additional parameters and a now uses a generic namespace in the WSDL. Rebuild the custom listener service based on the new WSDL and configure it to use that service in the Workflow admin page.

2.1.3 Upgrading from 1.3.0 or lower

If you are upgrading a WebLogic domain from 1Workflow 1.3.0 or any of the following versions of other 1SMS components, you will need to manually replace a security provider JAR file within WebLogic:

- 1Exchange 1.3.0
 - 1Transact 2.2.0
 - 1Validate 1.7.0
 - 1Plan 1.7.0
 - 1Workflow_Worklist 1.3.0
1. Locate the latest **ms-common-weblogic-security-provider.jar** file within your release package:
<release package>\ms-workflow-flow-release-1.3.1-release.zip\ms-workflow-flow-release-1.3.1\install\dependencies
 2. Within WebLogic, shut down all servers (including the Admin Server).
 3. Repeat the following steps for each machine in the domain:
 - a. Navigate to <domain-dir>\lib
 - b. Replace the JAR file with the one from your release package.
 4. Re-start all servers.

2.1.4 Upgrading from 1.1.111 or lower

Note that the WebLogic Server requires WebLogic patch 17754607 applied (upgrade to JPA 2.1).

While it is recommended that there are no in-progress jobs when performing an upgrade, 1Spatial have successfully tested the upgrade from version 1.1.111 when there are in progress jobs in the system. Before upgrading it is important to ensure that all in-progress jobs are in a static state and are not currently being processed by the system i.e. ensure that all activated jobs have moved to prepared or that all submitted jobs have moved to completed (or invalid or quarantined or conflicted).

2.2 New Functionality in this Release

2.1.0	
MSWORKFLOW-589	Batch Workflow jobs: call a Configurable custom endpoint
MSWORKFLOW-584	[Beta] Configure a custom endpoint to called after a normal job is merged. Note that endpoints which are implemented in BPEL and not accessed via localhost may not work.
2.0.0	
New platform support	Support for other 1SMS components on Wildfly 11.0.0
1.3.2	
MSWORKFLOW-519, MSWORKFLOW-526	Custom html can be added at the end of all generated emails
MSWORKFLOW-522	Read-only attribute added for Job Types
1.3.0	
New platform support	<ul style="list-style-type: none"> - Oracle WebLogic 12.2.1.3 - Java 8 JDK 1.8.0 update 141 (64-bit)

1.2.0	
MSWORKFLOW-504	Pass validation report XML to outbound FME adaptor
MSWORKFLOW-505	Pass job-metadata.xml to outbound FME adaptor
1.1.111 (1Worklist 1.1.112)	
MSWORKFLOW-497	New 1SMS online help accessible from all products, including release notes
1.1.110	
MSCOMMON-497	Authentication Provider Setup is failing to connect to a SSL enabled Admin Server because is not possible to specify 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)
1.1.108	
MSCOMMON-540	Support Oracle Linux 6.7
MSWORKFLOW-476	Add REST endpoint to read whether quarantine is enabled
1.1.106	
MSWORKFLOW-443	Support quarantine jobs
MSCOMMON-444	Improve resilience by removing the dependency on having a constantly running AdminServer
MSINT-169	Support Java 1.7 update 80
1.1	
New platform support	Oracle Weblogic 12.1.3 Oracle Database 12c Release 1 Windows Server 2012 64 bit Java 1.7.0_76

2.3 Bugs Fixed in this Release

1.3.1	
MSCOMMON-707	Log files not being populated for WebLogic 12.2.1.3
MSWORKFLOW-545	Recovery from failed activation does not always delete workspace in WebLogic 12.2
OSIGMS-146	SOAP API client handling can cause services to fail intermittently.
1.2.1	
MSWORKFLOW-491	Misconfigured Workflow WSDL during installation can result in stuck jobs
1.2.0	
MSWORKFLOW-503	Notification of abandon and relinquish should use name of user not original planner
MSWORKFLOW-503	Notification of abandon and relinquish should use name of user not original planner
1.1.112	
MSWORKFLOW-490	If Planner A plans a Job and Planner B revokes the same job the email notification indicates Planner A revoked the Job
1.1.110	
MSCOMMON-497	Remove redundant JDK selection from installer and warn users when installing into a domain having an unsupported Java version
MSCOMMON-566	Installing workflow fails silently if soa_server is not accessible
MSCOMMON-567	Cannot install/uninstall Workflow via HTTPS

MSCOMMON-571	Fixes to installer for secure AdminServer connection
1.1.109 (1Worklist 1.1.111)	
MSCOMMON-546	Installer obscures error message when trying to select it
MSCOMMON-529	1Integrate and 1Validate installer allows custom extension jar files to be added more than once
MSWORKFLOW-483	Excessive memory usage by Workflow prevents users from logging into worklist after throwing an Out Of MemoryError
MSWORKFLOW-482	Workflow admin page: Cannot set the default conflict child job status to 'Proposed' because it reverts back to 'Allocated To The Worker Group From The Conflicted Job'
1.1.108	
MSWORKFLOW-475	Admin user ca not log in to Admin Page
MSWORKFLOW-479	SOA server address is hard coded in batch workflow
MSWORKFLOW-478	Batch workflow not passing security context properly
1.1.107	
MSWORKFLOW-350	Email Notifications for revoked jobs should include the Planner details
MSWORKFLOW-462	Changing certain options in the Workflow admin does not enable the save button
MSWORKFLOW-465	1Worklist cannot upload zip files on Internet Explorer 11
1.1.106	
MSWORKFLOW-425	Revoking or relinquishing a job must remove the feature and package URLs
MSWORKFLOW-448	The "Help" page is not being shown
1.1.105	
MSWORKFLOW-430	Notifications are not working for Revoke, Relinquish and Abandon scenarios
MSWORKFLOW-429	Auto Conflict resolution not Working when there are conflicts in refreshing the workspace prior to the validation
1.1.104	
MSWORKFLOW-428	Child jobs incorrectly try to grow their parent's job extents
1.1.103	
MSCOMMON-389	Conflicts found in refreshing workspace before validation need to be handled by creating conflict resolution job
MSWORKFLOW-401, MSWORKFLOW-402	Failures in workspace manager operations are ignored by workflow
MSWORKFLOW-406	Workflow fails to compensate after activation errors
1.0.108	
MSWORKFLOW-386	Populate the Reason for Failure field on failed jobs
MSWORKFLOW-383	Email notifications for FAILED jobs seems to be missing
1.0.104	
MSWORKFLOW-337	Allow jobs to be abandoned

2.4 Known Issues and Unresolved Bugs

ID	Description and work around
MSWORKFLOW-584 [Beta, known issue]	Calling a downstream custom endpoints which is implemented in BPEL and not accessed via localhost may not work in some cases: Accessing non-BPEL endpoints or accessing BPEL endpoints via localhost works ok.
MSWORKFLOW-603	Downstream post-merge service should not be called for child jobs
MSCOMMON-819	If a server is restarted on a clustered environment ensure no jobs are in a transitional state (e.g. ACTIVATING, UPLOADING) but have proceeded to the next waiting state (e.g. prepared, downloaded) before the restart of the second server. Otherwise the server start will provoke compensation on those job instances as well and they will be stepped back to their previous state.
MSWORKFLOW-542	Thousands of jobs assigned to one user cause 1Worklist to Run out of heap space.
MSWORKFLOW-541	GrowExtents callback is called twice on failure.
MSWORKFLOW-215	Performance issue in Worklist service looking up a user's group name.
MSWORKFLOW-334	Edited child job extents are not applied for validation of ancestor jobs.
MSWORKFLOW-340	Parent job rolled back to 'Downloaded', but child jobs left as 'Completed'.

3 Providing Feedback

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.