



## Release Notes

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## 1Edit

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<Commercial-in-confidence>

Version 2.2.3

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# 1 Introduction

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## 1.1 Release Overview

The purpose of the Release Note is to document installation instructions, new functionality, bugs fixed and any known limitations of the new functionality.

## 1.2 System Requirements

### 1.2.1 Operating system

- Windows 8.1 Enterprise
- Windows 8.1 Professional

### 1.2.2 Prerequisites

#### 1.2.2.1 Side loading license

Because 1Edit is installed as a side-loaded app (not from the Microsoft app store) then your operating system must be licensed for side-loading. Windows 8.1 Enterprise (any version) and Windows 8.1 pro (from Update 1 onwards) include a side-loading license key if they are domain Joined (i.e. you login as a domain user – it doesn't mean you have to be connected to the network at the time).

If you are not using these versions then you have access to side-loading keys with the following Volume licensing programs:

- Enterprise Agreement
- Enterprise Subscription Agreement
- Enrollment for Education Solutions (under a Campus and School Agreement)
- School Enrollment
- Select and Select Plus

Otherwise you will need to purchase a side-loading key from a Microsoft reseller.

If you don't have a side-loading license key as described above, then for evaluating 1Edit in a non-production environment you can use (free) [Microsoft account](#) when installing the software, to allow it to run under a temporary development license. To acquire a developer license:

- 1) Open Windows PowerShell as administrator. To do this press Start, type PowerShell, right-click (or swipe down) on the PowerShell shortcut and select Run as administrator at the bottom of the screen.
- 2) Type the following command into the PowerShell window, press Enter, and agree to the license:

```
Show-WindowsDeveloperLicenseRegistration
```

This will provide a license to evaluate and test side-loaded apps for 30 days. After 30 days the apps will no longer run so you have to repeat the process above again.

Microsoft does not permit you to use this temporary development license in a production environment.

#### 1.2.2.2 Enable side-loading

Before installing, every machine must have set the 'Allow all trusted applications to install' Group Policy setting, which your IT department can help you with.

If your IT department doesn't use a group policy, then a machine can be configured to allow side loading by doing the following:

- 1) Login as an administrator user
- 2) Press the Windows key
- 3) Type gpedit.msc, and press Enter.
- 4) In the Group Policy editor Navigate to  
Computer Configuration\Administrative Templates\Windows Components\App  
Package Deployment
- 5) Double-click the *Allow all trusted apps to install* option and set it to Enabled.

Full details on side-loading pre requisites, see this page:

<http://technet.microsoft.com/en-us/library/hh852635.aspx>

#### 1.2.3 Visual C++ Redistributable Packages Prerequisite

Some machines require the free Microsoft Visual C++ 2013 Redistributable Packages to be installed. If the application installs, but closes when trying to open a project then try installing these packages. You can download them by selecting the vcredist\_x86.exe file from this location: <http://www.microsoft.com/en-us/download/details.aspx?id=40784>

#### 1.2.4 Hardware

A machine with an Intel processor, which needs to be either:

- A desktop or laptop computer that has a scroll wheel mouse and a keyboard, optionally a touch screen monitor
- A tablet, touch screen laptop or toughbook with a touch screen and preferably with a stylus

It is recommended that you have:

- At least 2Gb RAM and 2 processors on your machine or VM.
- A solid state hard drive for optimum performance.
- A machine with a graphics card or chip that supports Microsoft DirectX 11. 1Edit has been tested on inbuilt graphics chips such as the Intel HD Graphics 4000 and it performs well, but a dedicated graphics card would provide even better performance. Note that 1Spatial has witnessed **slow performance** of 1Edit map redraw on some **Intel HD graphics 4200** (or higher) chips, particularly when there is no

dedicated graphics memory. There are two workarounds that can be used and applying both will provide the best performance:

1. Workaround 1: From the 1Edit settings, turn on the setting called 'use simpler animations for performance'.
2. Workaround 2: Install the **Microsoft basic display adaptor** (this will be part of your Windows installation) although note that this does not allow external displays to be used such as additional monitors or projectors. To install the Microsoft Basic adaptor, follow these steps:
  - From the desktop, right mouse button (or press and hold for touch screens) and select **Screen Resolution**
  - Click on the **Advanced Settings** link
  - From the **Adaptor** tab, click on the **Properties** button
  - From the **Driver** tab, click on the **Update Driver...** button
  - Select **Browse my computer for driver software**
  - Select **Let me pick from a list of device drivers on my computer**
  - Select **Microsoft Basic Display Adaptor** and click **Next**
  - The driver will now be installed, restart 1Edit and try again

To revert the process so that you can use external monitors or projectors, follow the steps above but select the **Intel HD Graphics** adaptor instead of the **Microsoft Basic Display** adaptor.

Windows 8.1 can be run on a Virtual Machine within a Windows 7 environment. 1Spatial has tested using the free Oracle VirtualBox application, which is our recommended VM environment. It's recommended that your VM client is created with at least 35Gb of hard disk space in order to install Windows 8.1 and have some spare space for 1Edit and the test data.

## 2 Installation Guide

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### 2.1 Windows 8.1 basics

#### Windows 8.1 start screen

To go to the Windows 8.1 start screen either press the Windows button on your device, the windows key on your keyboard or press the Windows start button on the taskbar.

#### Windows 8.1 desktop

To go to the Windows 8.1 desktop, go to the Windows 8.1 start screen as above and click on the desktop tile, or press windows+d on the keyboard

### 2.2 Install 1Edit

Because of the way that Windows 8.1 manages Windows apps, you will need to perform the following steps for each Windows user who will be logging in and using 1Edit on the machine:

There is single batch file to install 1Edit. This performs an installation by 'side-loading' the software.

If you have already installed a previous version of 1Edit then this installer will automatically upgrade the 1Edit and retain any existing projects, templates and config files used by the application. Do not uninstall the previous version of 1Edit otherwise you will lose existing projects and need to re-deploy the additional configuration files.

- 1) As **the user who will run 1Edit**, either copy the installation folder to somewhere temporary on the local machine or access it from a mapped network drive (note that security settings usually prevent you from installing directly from the c: drive so place the installation folder within a sub folder)
- 2) If the folder is zipped up then unzip it now: You can't install from a zipped folder.
- 3) Navigate to the folder and double click on **install1Edit.bat**
- 4) 1Edit will install automatically, messages in the window will indicate success or failure.

If your administrator has included in the app package a predefined 1Edit Template and config file then these will automatically get deployed too (see sections below on how administrators can configure these). You can delete the temporary installation folder now, but If you are using survey tools, then follow the section below first.

#### 2.2.1 Troubleshooting the 1Edit installation

##### Installation fails with a message in the installation window

Check that side-loading is enabled (see section *1.2.2.2 Enable side-loading* above). Note that the default local administrator user is not domain joined and does not have side-loading enabled so ensure you are logged in as a 'normal' domain user.

##### Installation succeeds but the application does not start up ("This app can't open") and the start screen tile subsequently has a cross in the corner

This is usually because there is no side-loading license key. If you are on Windows 8.1 pro then typically this means that you should do a Windows update to at least Update 1. Alternatively you need a side loading license or for non-production use you can install an evaluation side-loading license. See section *1.2.2.1 Side loading license* for more details.

### Application starts up but crashes as soon as a project is opened

Install the C++ redistributable on the machine, see *section 4 Visual C++ Redistributable Packages Prerequisite* for details.

## 2.3 Install 1Edit Device Extension

If using external surveying hardware then the 1Edit device extension must be installed on the machine. This can be installed by any user but the installation requires **administrator privileges**. Once the device extension is installed as any administrator user, all users who use 1Edit on this machine will be able to connect to supported GPS and TotalStation devices.

- 1) As a user **with administrator privileges**, copy and unzip the 1Edit installation folder to somewhere temporary on the local machine or access it from a mapped network drive (you can use the installation folder that was unzipped to install 1Edit)
- 2) Navigate to the 1Edit folder and double click on **installDeviceExtension.bat** file. If the installation fails then a message will appear in the Window.  
Failure to install is typically because the current user does not have the permissions to allow the script to perform the following tasks:
  - Copy device extension dlls to C:\Program Files (x86)\1Spatial\1Edit\devices\
  - Register DeviceProxyStub.dll with Windows so that it can be called from 1Edit.
  - Set up RX (read and execute) permissions on this devices folder to the AL APPLICATION PACKAGES user

### Troubleshooting the device extension installation:

- 1) Check the following files are present in C:\Program Files (x86)\1Spatial\1Edit\devices:

- AmalgamCOM.dll
- amalgam-devices-communication.dll
- amalgam-devices-leicagps.dll
- amalgam-devices-leicatotalstation.dll
- amalgam-devices-sharedcomponents.dll
- amalgam-devices-teststub.dll
- DeviceProxyStub.dll
- GeoComS2K.dll
- BrokeredDeviceComponent.winmd

- 2) From a command prompt change the directory to

**C:\Program Files (x86)\1Spatial\1Edit\devices**

And run the command below to check it succeeds:

**regsvr32.exe DeviceProxyStub.dll**

3) From the same command prompt, run this command to check it succeeds

```
icacls.exe . /T /grant *S-1-15-2-1:RX
```

If all the commands succeed then the device extension is correctly installed

### Troubleshooting when using the device extension

If this error happens when re-connecting to a device after closing and opening a new project:

“the following error occurred while trying to apply COM port change:

Failed to open the GPS device connection on COM port: 8

Until the cause of the error is resolved, GPS support will remain disabled”

Then try to kill the COM surrogate dllhost process in task manager and try connecting again. Closing 1Edit in between projects should minimise this problem.

### Uninstalling the device extension:

- 1) As a user **with administrator privileges** 2) From a command prompt change the directory to:  
**C:\Program Files (x86)\1Spatial\1Edit\devices**

And run the command below and check it succeeds:  
**regsvr32.exe DeviceProxyStub.dll /u**

- 2) Then delete all the files from  
**C:\Program Files (x86)\1Spatial\1Edit\devices**

## 2.4 Integrating with 1Spatial Management Suite (1SMS)

In order to use the 1Edit worklist page and integrate with the 1Spatial Management Suite (1SMS), 1Edit requires a config file to define the location of the 1SMS worklist service. If your administrator has bundled a config file in with the installation then there is no further step needed. You can check this by looking for a services.xml file in:

```
C:\Users\<current_username>\AppData\Local\Packages\1Edit_qw7y987j427n8\LocalState\Config
```

Or by looking at the projects page to see if there is a Worklist button present – this button is only present when a config file is in place.

This file must be called services.xml, and must contain the following:

For a 1SMS environment without secure authentication (e.g. when calling from within the same network):

```
<services>
  <environment>Any name here</environment>
  <worklistroot>http://1SMSserver.company.com:port/wf</worklistroot>
</services>
```

For a 1SMS environment with secure OAuth authentication and https:



```
<services>
  <environment>Any name here</environment>
  <worklistroot>https://1SMSserver.company.com:port/wf</worklistroot>
  <oauthserver>https://1SMSserver.company.com:port/wf/mstoken</oauthserver>
</services>
```

You will need to set the URLs as appropriate for your 1Workflow worklist service, which may also have been configured with additional https security in which case the URL starts with https not http. A 1SMS/1Workflow administrator can provide these URLs. The <environment> tag is an optional element which can be used to specify the name to appear at the top of the worklist page to help tell the user which server they are pointing at, for example 'Live Production Data' or 'Test Environment'.

To distribute this file automatically to all users and have it installed for all installations, it can be placed into the config folder within the installation folder. When users install 1Edit, the config file will be automatically put in the right place.

If the config file was not bundled with your installation then to deploy it, launch 1Edit from the windows 8.1 start screen to create the correct folder structure, then drop the services.xml file into the following folder and restart 1Edit:

C:\Users<current\_username>\AppData\Local\Packages\1Edit\_qw7y987j427n8\LocalState\Config

*Tip: Ensure that 'Hidden Items' is checked in the Windows Explorer View tab, in order to see the AppData folder*

The second part of the configuration for 1SMS involves deploying a template file, which defines the standard schema, styles, rules and topology setup. Follow the instructions in the next section. You must have created and deployed a template file in order to use the 1SMS worklist to download and open jobs.

## 2.5 Deploying a Project Template

A project template defines a standard schema, set of styles, set of validation rules and topology definitions. A template is a useful way of defining a standard configuration into which you can load different data without having to repeatedly load schemas, define styles, configure topology etc. You can optionally use a template when loading GML into 1Edit and you must have a template deployed in order to download jobs as projects using the 1SMS worklist.

Use 1Edit and follow the 1Edit user guide to create a template. This requires creating a project containing no data but with the correct extents, SRID and schema and optionally one or more styles, zero or more topologies and zero or more validation rules. When the project is saved as a template from the projects page, it is saved as a .ibck (image backup) file. The name of the file does not matter, but it must have a .ibck extension.

You can install this new template from the project page by opening the app bar and selecting 'Import Template', this will allow you to browse to the newly selected template replace a current template with the template you have just saved.

Note that importing a template in this way simply copies it to this folder:

C:\Users<current\_username>\AppData\Local\Packages\1Edit\_qw7y987j427n8\LocalState\Templates

To distribute a template file automatically to all users, it can be placed into the Template folder within the installation folder. When users install 1Edit, the template file will be automatically put in the right place.

*Tip:: If you update the Config or Template files after distribution, then the easiest way to distribute the new versions to all users is to replace the files within the 1Edit installation folder and distribute this folder to all users to re-install. 1Edit will not be updated if the version has not changed, but the new files will be deployed into the right location for each user.*

## 2.6 Install any sample projects

If you have been provided with a sample 1Edit project, then this process is needed to put pre-configured project data in the right place. (if you have sample GML then you do not need this step, just create a new project from within 1Edit, as documented in the 1Edit help). If you have upgraded from a previous release of 1Edit with the project already in place then there is no need to perform this step: It is only needed for sample data after the first install or if 1Edit has been uninstalled or if the data has changed.

- 1) Click on the 1Edit tile to launch the app. This creates a Projects file into which the data can be copied.
- 2) Open an Explorer window and copy the provided data folder to  
C:\Users\\AppData\Local\Packages\1Edit\_qw7y987j427n8\LocalState\Projects
- 3) Return to the 1Edit project page and press the refresh button if the project is not visible

## 2.7 Test 1Edit

- 1) Go to the Windows 8.1 start screen
- 2) Click on the 1Edit tile to launch the app again
- 3) Click on a project tile to open an existing project, or click New Project to create a new project from GML
- 4) If 1Edit closes instead of displaying the project data then you may need to install the free Microsoft Visual C++ runtime redistributable, see section 1.2.3 for details.

## 2.8 Access the help

The help is available from this URL

<http://www.1spatial.com/documentation/1edit/>

You can also access the help from within the application itself in one of two ways:

- Press **F1** when the 1Edit main map page is currently in focus
- From the charms menu using these steps:
  - 1) Open the Charms menu by:
    - a. Moving the mouse to the top-right of the screen, then sliding it down when the charms appears
    - b. Or swipe from the right for a touchscreen
    - c. Or press Windows+I (The letter I)
  - 2) Select Settings->Help



## 3 Release details

### 3.1 New functionality

<b>2.2.3</b>	
PRIS-3838	Allow Search based on more than one attribute value
<b>2.2.0</b>	
PRIS-3070	Allow styles to be quickly switched between from the main map page
PRIS-3469	F1 opens the 1Edit help
PRIS-3839	Copy map centre coordinates in a single operation from navigation zoom panel
PRIS-3949	Ability to handle gml:MeasureType values within schemas (UoM is ignored)
PRIS-3947	Nesting of metadata attributes inferred from name can be turned off in the settings
<b>2.1.1</b>	
PRIS-3901	Support adding reflexes on reference properties
PRIS-3269	Hitting Enter in a text box in the attribute panel should set that attribute and lose focus
<b>2.1.0</b>	
PRIS-3849	Add support for 1SMS Quarantine jobs to 1Edit worklist page
PRIS-3885	Split Line: Avoid disposing of current edit vertex; Disable use of cross mode
PRIS-3773	Split Line: Default to longest and allow user to override which feature retains the identity of the original
PRIS-727	Split line by another feature – can just pick the other feature without starting the 'cross' mode
PRIS-2472	Split line should snap to target feature, preferring vertices, like with other snapping operations.
PRIS-3887	Split polygon and line: Highlight differently the part of the polygon/line that retains the ID
PRIS-3772	Split polygon: Allow user to override which feature retains the identity of the original
PRIS-3834	Add sequential number to the features in the Search Results Panel
PRIS-3802	Allow the user to view and override specific shared reflex target values within a project
PRIS-3776	New operation to recycle a feature and give it a new identity
PRIS-3407	Add is_valid builtin function
PRIS-3403	Add is_simple builtin function
PRIS-3401	Add string length builtin function
PRIS-2823	Add 'has_kickbacks' built-in function
PRIS-3078	Can now import more than one .style file at a time
PRIS-3012	Display bookmark count beside each filter in the drop down list
PRIS-2355	When adding a layer to the style, add one for every geometry of a class.
PRIS-1997	Adding a bookmark should leave Upper App bar open
<b>2.0.0</b>	
PRIS-3413	Support Windows 8.1
PRIS-3527	Web Map Tile Services (WMTS) can be used to display background data in 1Edit
PRIS-2312	View the name of the currently open project
PRIS-637	Manage multi cardinality references with a new 'add and remove references' button so the user can toggle features in and out of the list via the map
PRIS-3141	Multi-cardinality references can be all removed or selected in one click

PRIS-3437	Survey Tools: Replace 1Edit device server with new mechanism which is more stable and does not need an explicit startup
PRIS-3613	Chain and Offset: Make the proration tolerance optional
PRIS-2396	Chain and Offset: Allow entries with blank offsets to be accepted as a zero offset.
PRIS-2253	Chain and Offset: Retain previous distance in the entry boxes when adding new point
PRIS-2023	Chain and Offset: Allow the ability to redefine the baseline once started
PRIS-2959	Search: Extend search to allow choice of intersect or are wholly contained by either job extent or window
PRIS-2069	Search: Search should allow search even when one or two characters are entered
PRIS-2911	Search: Make selection of search results rapid and not limited to 50 results (now 1000)
PRIS-1750	Punch a feature using multiple features in a single operation
PRIS-3373	Provide more details when reporting that an XSD could not be loaded
PRIS-3665	Move properties panel down about 10 pixels to provide space for new Windows 8.1 bar
PRIS-3360	Date attributes in the Attribute Panel should have a calendar and a button to set to 'Today'
PRIS-3595	Hide exception stack trace in 1Edit Error message form
PRIS-3217	Can now search 1Edit help

## 3.2 Issues and Bugs fixed

<b>2.2.3</b>	
PRIS-4001	Map View temporarily goes blank when digitizing in repeat mode
PRIS-3997	Map zooms to job extent following suspend and resume
PRIS-3982	Style Page - Class selector is not re-populated when you come back from defining a thematic layer
PRIS-3978	Hide style picker drop down when only one style is available
PRIS-3968	Attribute panel does not always show on-the-fly validation results
PRIS-3958	When all references are removed, select all references button stays enabled until re-selection
PRIS-3857	For text layers in Style form, display colour as "AaBb" text not a filled rectangle
PRIS-3848	Add 'pixels' units of measure hint to snapping tolerance in 1Edit settings form
PRIS-3464	Provide more friendly message when trying to open the worklist without internet connectivity
PRIS-1904	Style page 'delete current' appbar button should be disabled when there is only one style
<b>2.2.2</b>	
PRIS-3986	Crash during multi-digitise accept, especially on VMs with less than 4 processors
<b>2.2.1</b>	
PRIS-3980	International characters are not exported correctly when writing GML
<b>2.2.0</b>	
PRIS-3442 PRIS-3342	Disable Accept when attaching a geoTiff until the raster is fully copied to local project to prevent crashes on slow networks
PRIS-3851	Adding a large raster to a Style can cause 1Edit to become unstable if suspended
PRIS-3928	Attempting to export a Style with a raster layer added causes a crash
PRIS-3930	Failed to import style when a referenced wmts server is not online
PRIS-3938	Cannot load XSDs that have annotations in enumerations

PRIS-3939	Create Group feature doesn't refresh the attribute browser
PRIS-3951	Conflict resolution in 1Edit does not deal with an update to a reference
PRIS-3953	International characters in rules cause rules to not be persisted in a project
PRIS-3957	Validation crashes 1Edit for validation rules where null values are generated such as getting the boundaries of point geometries
PRIS-3960	Double tap on a deleted search item causes an error
PRIS-3966	Refreshing a WMTS Layer list after selecting one causes exception
PRIS-3972	WMTS Tile Matrix can only be set on creation of the WMTS layer
PRIS-3973	Editing a WMTS Layer when two layers are available in a style causes exception and corrupts the project
<b>2.1.3</b>	
PRIS-3950	Unable to split or edit certain line features
PRIS-3951	Conflicts on references not being handled properly for conflict resolution
PRIS-3956	Double tap on touchpad is not consistent
PRIS-3954	Search panel remembers previous results and jumps back to last selected feature when opened
PRIS-3933	Unable to complete an edit to a feature when feature intersects an existing feature in same topology
PRIS-3940	Splitting a feature should keep the references with the part that is selected to retain the original properties
PRIS-3941	Null_on_unset does not work for multi-Reference properties
PRIS-3931	Abstract classes not available from topology class selection
PRIS-3937	Cannot create a non-geometric feature when there is a reflex on reference properties
PRIS-3924	Setting dependant values from 3d_geometries does not fire when on_set is defined
PRIS-3898	Unable to open a conflict job if the conflict contains references. Note that this will require any existing templates to be re-created in order to open conflict jobs.
<b>2.1.0</b>	
PRIS-2170	Zoom to feature for horizontal or vertical lines fails.
PRIS-3680	Improve performance when creating a project containing large polygons in 1Edit
PRIS-3882	Error when reshaping and reporting that a duplicate vertex exists
PRIS-3874	Topology classes list is not refreshed on adding new classes
PRIS-3777	Cross mode does not have interactive help hints defined
PRIS-3691	"Select All References" button breaks if there are zero referenced objects
PRIS-3559	Using cursor keys on search panel highlights different results in the list but does not select them on the map
PRIS-3378	Bookmarks not zooming to feature when selected
PRIS-2009	Topological Bookmarks creation fails for linear horizontal and vertical extents
<b>2.0.5</b>	
PRIS-3823	1Edit internal license expired on 1 <sup>st</sup> Nov 2015
<b>2.0.4</b>	
PRIS-3799	Digitising Points at Interval Crashes 1Edit
PRIS-3796	1Edit crashes during functional tests feature(s) digitising
PRIS-3795	Highlight layer is not updated during editing operations
PRIS-3780	Fix crash from application hang during synchronous editing
PRIS-3779	Crash when simultaneously punching large polygon and tapping map
PRIS-3774	Deleted non-geometrical object doesn't get removed from selection set
PRIS-3771	Creating parallel by dragging an offset adds additional offset and scales the parallel feature

PRIS-3770	Error displaying raster layer
PRIS-3763	Unable to delete a Named Way
PRIS-3762	1Edit crashes when zooming to job extents with WMTS enabled
PRIS-3752	1Edit throws a non-recoverable error when zoomed to scale 0 and WMTS enabled
PRIS-3272	Improve Performance of accepting an edit on very large polygons
<b>2.0.3</b>	
PRIS-3747	Revalidate button does not change the validation highlight until the screen is redrawn
PRIS-3750	Memory leak when using WMTS in 1Edit
<b>2.0.1</b>	
PRIS-3730	Job extent not displayed on map
PRIS-3725	WMTS layer being displayed when 1Edit is suspended and resumed causes exception
PRIS-3726	Adding or enabling some WMTS services won't display them until the project is closed and re-opened
PRIS-3728	Adding a WMTS layer but not providing a URL or not loading the capabilities causes exception when displaying the map
PRIS-3729	Adding a WMTS to a Style and loading the capabilities but not selecting a Layer or tileset causes exception when displaying the map
<b>2.0.0</b>	
PRIS-3046	Search: Pressing return causes the search to happen but also get cancelled resulting in 0 results
PRIS-3675	Map selection location is offset when using new Windows 8.1 scaling mode on small, high-dpi displays
PRIS-3530	Pan and zoom is very slow on machines using Intel HD Graphics 4200+ graphics chips (Need to enable new <i>Use simpler animations for performance</i> setting)
PRIS-3674	Secondary Geometry selection list item is not faded if no secondary geometry is present on Windows 8.1
PRIS-3270	Validation spatial predicates should work if one or both inputs are null
PRIS-3668	1Edit throws occasionally exception when invoking key down on main map page
PRIS-3599	Dragging Vertex further than snapping distance does not succeed when zoomed out
PRIS-3518	Rule failures listed in the properties panel should wrap so the text is readable.
PRIS-3516	GML export generates invalid XML when the input schema includes XLINK namespace
PRIS-3507	Deleting a feature's string property sets it to empty string instead of NULL so validation rules not failing the feature.
PRIS-3432	Creating a project from gml leaks memory
PRIS-3411	Large polygons included in the job cause 1Edit to crash when opening the data
PRIS-2520	Unable to switch to selected Topology View after switching apps
PRIS-3358	1Edit stuck in last topology when resuming from suspension
PRIS-3328	Reshaping using topology can cause incorrect validation results (spatial index not updated).
PRIS-3320	Unable to select a feature following a topology reshape (spatial index not updated)
PRIS-3185	Selection highlight stays but feature is not actually selected after splitting a polygon feature
PRIS-3149	Change Class of multiple features should not prompt the user for each feature
PRIS-2864	Map jumps around making it impossible to navigate and edit when zoomed in very far
PRIS-2813	Ampersand and all other xml restricted characters in properties cause invalid GML to be generated (need to be escaped in Changes.gml)
PRIS-2502	Hitting two arrow keys simultaneously when navigating causes a ghost image
PRIS-2498	Dragging vertices often does not redraw the new map because redraw is fired twice asynchronously which interferes with itself.

### 3.3 Known Issues and Unresolved Bugs

PRIS-3994	Deleting a hole may leave an out-of-date highlight until the next redraw
PRIS-3922	Reflex methods do not fire on the feature at the 'other end' of a reference. This means that changing the references will not change the metadata for those referenced features. Workaround is that if you need to change feature references, then select the features that have the reference metadata and make the updates to those features.
PRIS-3755	Cannot always re-connect to survey tools between sessions: "the following error occurred while trying to apply COM port change: Failed to open the GPS device connection on COM port: 8 Until the cause of the error is resolved, GPS support will remain disabled"  Workaround is to kill the com surrogate dllhost process in task manager and try connecting again.
PRIS-3719	When using WMTS and the 'use simpler animations for performance' setting on, zooming appears to jump one level too far and then jump back
PRIS-3287	Undo/Redo does not trigger on-the-fly revalidation for the affected features
PRIS-3200	Manual Traverse - Keyboard pops up when creating baseline. Workaround is to close the class selector list first
PRIS-3650	Window Resizing : 1Edit Main App Bar and Edit App Bar not all buttons visible when Docked as a smaller window
PRIS-3436	Infinite loop when doing 'create from union of selection' when in repeat mode and with 'deselect after editing' setting turned off
PRIS-546	Reshaping a polygon does not work when the reshape line is in the wrong direction for the ring.
PRIS-734	Digitise circle creates closed line not area
PRIS-2537 PRIS-3324	When 1Edit is suspended and resumed, previous local validation failures are no longer highlighted
PRIS-2496	Cannot delete a project after a template has been built from it without restarting 1Edit
PRIS-2117	Cannot trace the primary geometry of the same feature when creating a secondary geometry for a feature
PRIS-2969	Passwords with + or % characters fail when logging into 1Edit worklist
PRIS-2112	Cannot reshape a loop topology edge when the reshape ends on the start/end node
PRIS-2290	Cannot Split a closed line
PRIS-2123	Cannot square a closed loop topology edge
PRIS-3304	1Edit cannot be suspended while creating a project. Do not switch away from 1Edit when creating a new project (either when opening a job in the worklist or creating a new project from GML) or the project creation will fail.
PRIS-3226	Local Validation does not revalidate features adjacent to a deleted feature so lone deleted features do not cause revalidation.
PRIS-3278	Topology bookmarks are not being updated when doing bulk topology structuring
PRIS-3792	1Edit freezes when forcing zoom to extents while WMTS map redraw is still in progress



PRIS-3767	Managing references - de-select causes references to be removed
PRIS-3791	Applying style during map redraw causes a crash
PRIS-3797	Preview the adjusted tie out distance in prorata causes an error in the application when the baseline contains duplicate points
PRIS-3801	Crash if suspending while waiting for a large feature edit to complete
PRIS-3807	Unable to switch to and select topology features after a period of field editing