



## Release Notes

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### 1Edit

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<Commercial-in-confidence>

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## Contents

1	Introduction .....	3
1.1	Release Overview .....	3
1.2	System Requirements .....	3
1.2.1	Operating system .....	3
1.2.2	Prerequisites .....	3
1.2.3	Visual C++ Redistributable Packages Prerequisite .....	4
1.2.4	Hardware .....	4
2	Installation Guide .....	6
2.1	Windows 8.1 basics .....	6
2.2	Install 1Edit .....	6
2.2.1	Troubleshooting the 1Edit installation .....	6
2.3	Install 1Edit Device Extension .....	7
2.4	Integrating with 1Spatial Management Suite (1SMS) .....	8
2.5	Deploying a Project Template .....	9
2.6	Install any sample projects .....	10
2.7	Test 1Edit .....	10
2.8	Access the help .....	10
3	Release details .....	11
3.1	New functionality .....	11
3.2	Issues and Bugs fixed .....	11
3.3	Known Issues and Unresolved Bugs .....	13

# 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>2.4.3</b>	
PRIS-3383	View and edit a geometry's vertex values (x, y and z)
PRIS-3374	Display hotspots from server validation reports when selecting a bookmark
PRIS-3050	Allow search of dates, integers and reals and use of <, <=, >, >=, != operators
<b>2.3.7</b>	
PRIS-824 (PRIS-3807)	Implement logging mode in the settings to log user interaction to help with debugging. Log written to C:\Users\<username>\AppData\Local\Packages\1Edit_qw7y987j427n8\LocalState\MetroLogs\Log - <timestamp>.log
<b>2.3.0</b>	
PRIS-1610	Allow line width to be defined on the style page
PRIS-1553	Allow thematics for labels
PRIS-3840	Allow trace between any two points instead of only round the boundary of faces.
PRIS-3859	Differentiate features in the 'selection' popup list using the first thematic for that class
PRIS-3844	On Windows 10 selecting topology primitives freezes the application
<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

### 3.2 Issues and Bugs fixed

<b>2.4.5</b>	
PRIS-4308	Creating or updating a template causes reflexes not to trigger when using ON_SET flag
PRIS-4149	1Edit can crash when creating a line feature using GPS input in continuous mode
<b>2.4.3</b>	
PRIS-3142	Worklist: switching between ALL and MINE can cause 1Edit to crash or Jobs to stop at prepared
PRIS-3759	Trailing spaces are not shown when attribute editing
PRIS-4195	Project creation can fail when there's a topology error on features with reflexes: "VALIDATE : Validation of cache transaction failed". To pick up the fix, reload reflex methods into project templates.
<b>2.3.7</b>	
PRIS-4101	Highlighting of topology nodes and Point geometries hard to see
PRIS-4119	Trace: Remove debug message 'Unable to find topological route in selected classes' during successful trace

PRIS-4109	Trace fails to find route between two topological nodes
PRIS-4082	Trace re-route not displayed immediately
PRIS-4121	Conflict jobs with conflicts on features with no geometry cause error when loaded
PRIS-3219	Trace: Accepting a trace mode does not reset the trace icon.
PRIS-4114	Trace: 'Cannot have consecutive duplicate vertices' error
PRIS-4125	Trace jumps to wrong topology when reshaping
PRIS-4131	Trace cannot find route between two connected lines
PRIS-4132	Trace: Incorrect route found between two connected lines
<b>2.3.1</b>	
PRIS-4085	Creating features in Continuous Mode using GPS does not show the feature being drawn until final accept unless GPS moves outside map view
PRIS-3964	Suspend/Resume seems to leak memory
PRIS-3829	Application Hangs when resuming from suspension
PRIS-3347	Change Class - Selection Panel Persists After Resuming
PRIS-3255	Suspend Can Crash the Editor if Using Prorate at the Same Time
PRIS-2350	Chain and Offset points lost when 1Edit is suspended.
PRIS-3192	1Edit does not redraw properly after resuming from suspend
PRIS-3060	Previous and Next Navigation not working when 1Edit is reopened following suspension
PRIS-783	When you resume from a suspend, the favourites on the digitising menu is cleared
PRIS-3184	Selected features are deselected when application is suspended
PRIS-3310	Drawing Class Resets When Suspending and Resuming
<b>2.3.0</b>	
PRIS-3681	Bilateration and Snap digitise modes appear in the digitise panel in Manage References Mode
<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	Disable Accept when attaching a geoTiff until the raster is fully copied to local project to prevent crashes on slow networks
PRIS-3342	
PRIS-3851	Adding a large raster to a Style can causes 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

### 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