



# Customer Product Release Summary

## LFM Server 4.3.0.32

Release Date: 19/07/2016

This document outlines all changes made in the above release of LFM software.

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**Superseded software version:** LFM Server 4.3.0.26

**LFM Software version numbers:** X.X.X.X

First version field denotes general software series number.

Second version field is incremented to track major new feature implementation.

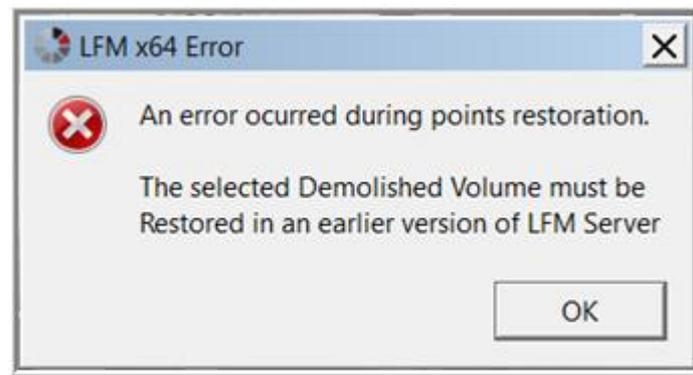
Third version field is incremented to track minor new feature implementation.

Final (fourth) version field is incremented to track error fixes.

### PC minimum supported specification:

<i>Processor</i>	Intel Core 2 Duo
<i>Memory</i>	(4x1024) 667Mhz DDR2 Dual Channel ECC
<i>Hard Drive</i>	80GB (7200RPM) Serial ATA11
<i>Optical Drive</i>	16x DVD +/- RW Drive
<i>Graphics card</i>	NVIDIA Quadro FX 2000
<i>Operating system</i>	Windows 7 x64
<i>Network</i>	1GB Ethernet card

**Note for Engineering Users:** Any volumes that have been demolished in LFM Server 4.2.0.23 or earlier cannot be restored in LFM Server 4.3.0.32. They must be restored in an earlier version of LFM Server. If a user attempts to do this in LFM Server 4.3.0.32 they will receive the following message:



## **Enhancements for this release:**

### **Navisworks 2015 and 2016 Support**

LFM Server now supports Navisworks 2015 and 2016 (Manage and Simulate only, Freedom is not supported).

### **SmartPlant Review 2015 Support**

LFM Server now supports Intergraph SmartPlant Review 2015.

### **Speed of volume selection in File (Multi-User) mode increased**

Volume selection in File (multi-user) mode is now faster meaning that users can be more productive and efficient. In our tests we saw a 73% decrease in time taken to select a large volume at subdraw 4 from LFM Server 4.2.1.16 to LFM Server 4.3.0.12.

### **AutoCAD 2015 and 2016 Support**

LFM Server now supports AutoCAD 2015 and 2016.

### **Fast-Tagging & Intuitive Mark-Up**

Adding intelligence to an asset has never been so easy with simple 'locate and tag' functionality. Simply navigate to the area or item you are interested in, select it and start adding intelligence. Input URL's (links to data, websites or documents) and attributes within the BubbleView or import .CSV files for the addition of multiple entries.

These Markups can be viewed and utilised within LFM Server itself for LFM Server Engineering users. Alternatively, LFM NetView users can also benefit by consuming the Markups in a linked LFM NetView 4 project.

### **Increased Interoperability**

LFM Server now supports Trimble .TZF, FARO .FWS, Dot Product .DP file formats and links to AutoCAD 2015 and Revit 2015. LFM Server now also outputs to Autodesk ReCap.

### **Volume Selection in BubbleView**

Volumes may now be dynamically selected directly in the BubbleView. Simply click on the button shown right, click on the area of interest in the BubbleView and manipulate the volume via the blue drag handles.



### **Additional Operating Units**

Users may now display coordinates and measurement in U.S. Survey feet (decimal) and U.S. Survey feet and inches (decimal).



## **LFM NetView 4 Project Creation**

LFM Server can now be used to create and link to LFM NetView 4 projects where users can view scan BubbleViews via a PC, laptop, tablet or smartphone. Scans may be taken offline for site visits, project reviews or client presentations. LFM NetView users can also take measurements and view Markups created in LFM Server.

## General/Server Mode error fixes for this release: 4.3.0.32

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B4878	Support Database Detect for clashing in SmartPlant 3D	Database clash detection is now supported in SmartPlant 3D. See <a href="#">Appendix 1</a> below for instructions on how to enable this feature.
B5038	Low point cloud density on exported ReCap (.rcp) files	The point cloud density has been increased for exported ReCap (.rcp) files
B5220	SmartPlant 3D - Local clash detection not working	The issue is fixed. The user is now able to successfully run local clash detection.
B4373	LFM Server crashes on storing volumes in the Project Volumes area when storing project data in an SQL database	The user is now able to store volumes in the database successfully.
B2059	Importing an .lfu file (users file) does not import any users	Importing an .lfu files now imports the exported users.
B4562	LFM NetView 4 colour projects are published in greyscale if colour .jpgs are not in the same folder as the .ints	LFM Server now checks to see if the BubbleViews are in colour. If they are and it cannot find the colour .jpgs in the same folder as the .int, the user will be asked to browse to the folder where the .zfc's are (where the colour resources should be).
B4815	Elevation floorplans contain black tiles if the plan is vertical and long/thin.	The elevation floorplans are now created correctly without any error.
B3815	Importing an .rvm file containing "MDS/MDU clamped shoes" crashes LFM Server	The user is now able to import an .rvm file containing "MDS/MDU clamped shoes" successfully without any crash.
B4874	Not able to close LFM Server due to BubbleViews loading	The user is now able to close the application when BubbleViews are loading.
B2992	Demolish and Restore right click options are enabled on the Volumes Manager without any volumes being selected	The issue is fixed. The Demolish and Restore options are now enabled only when a volume is selected.

B2017	Clipping Volumes don't have any dimensions; Width, Height and Depth are missing.	The issue is fixed. The dimensions of the clipping volume are now being shown as expected.
B5297	HyperBubble button not being shown in Navisworks	The option is now available to switch to HyperBubble on the LFM Server toolbar within Navisworks.
B5327	Datasets generated from non-colored data in LFM Server 4.4 do not show any points when opened in older versions of LFM Server	Datasets generated from non-colored data in LFM Server 4.4 now display correctly in LFM Server 4.3.0.32.

### Gateway Mode error fixes for this release: 4.3.0.32

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B4547	HyperBubble textures created from data converted in recent versions of LFM Server has rogue data in the sky	The HyperBubble texture quality is now improved by eliminating the disturbances in the data.
B5036	Cannot change the "location for converted scans" option in Options > Project > Gateway	The user is now able to change the "location for converted scans" option in Options > Project > Gateway.
B3052	Importing a .k file ignores the first 2 targets	The issue is fixed. The user is now able to select the targets when importing a .k file with the typical six empty lines at the start of the file.
B2523	Subdraw value for volume selection is not respected. Volumes are always displayed at subdraw 1.	It is not possible to control the subdraw of a volume in Gateway Mode. Hence the subdraw field has been removed from the Volume Selection dialogue in Gateway Mode.

**General/Server Mode error fixes for previous release: 4.3.0.26**

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B3026	Clashing does not work for a selection of items in MicroStation/PDS	The issue is fixed and the user is now able to perform clash checking for selected items
B4976	Colour decorators are being created despite no colour files being created	The issue is fixed and now colour files are being created while NetView publish
B4827	Application is not supporting .zgl or .xgl, .rvm and LFX export formats for Projects Objects under Objects Manager Tab and an error occurs while re-importing LFX file	The issue is fixed and the user is now able to re-import LFX files under projects manager tab
B4971	The filtered scan list is empty when a volume is selected	The issue is fixed and the user now is able to see filtered scan list when a volume is selected
B2055	Scan positions not shown in AutoCAD	The issue is fixed and the user is now able to see Scan positions in AutoCAD. Toggling the scan sites in LFM Server is also effects the AutoCAD Scan Crosses.
B3848	Floorplan view names are confusing	The issue is fixed and the floor plan View direction are modified as North, South, East and West notation
B1439	Toggling when clash manager is open does not turn clashed objects off. Toggling when clash manager is closed does not toggle objects on.	The issue is fixed and the user is now able to toggle the clashed objects On/Off
B4954	AutoCAD - Add ability to clear clash list	The issue is fixed and now user can able to see the new option called 'Clear clash list' in LFM Clash palette window to clear the clash list
B5000	Pipe diameter measurement doesn't display 3D pipe	The issue is fixed and now user can able to see 3D pipe while pipe diameter measurement.
B5002	Move the recreation of LFM NetView information to a command	The issue is fixed

### Gateway Mode error fixes for previous release: 4.3.0.26

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B4977	LFM crashes when importing a survey (.crd or .k) file by right clicking on the project node and using "Import to this group" option	The issue is fixed and the user is now able to import survey file by right clicking on the project node and using "Import to this group" option
B4902	Problems creating a new Register group depending on license features available	The issue is fixed and the user is now able to creating a new Register group depending on license features available
B2812	Volume limited dataset generation does not take the group translation into account	The issue is fixed and the user is now able to generate dataset with limited volume and group translation
B4983	Volume limited dataset generation hangs with unstructured scans	The issue is fixed and the user is now able to generate dataset with limited volume in case of unstructured scans also

**General/Server Mode error fixes for previous release: 4.3.0.24**

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B2379	Volumes exported are not in correct position when imported into LFM Server	The issue is fixed and the user is now able to import the volumes in correct position
B4721	Exporting volumes in ReCap & ASCII format fails	The user is now able to export volume in ReCap & ASCII formats
B3629	Rotation properties for a volume in attributes window is displaying as zero degrees	LFM no longer shows zero degree and now shows the correct value
B3967	Drop down box cuts off long volume names for LFM NetView project publishing	The user now is able to see the full volume name on the pull down menu of the LFM NetView project publishing dialogue
B4087	When volume is exported in ASCII format, in destination folder .asc file is created of 0KB size	The issue is fixed and the user is now able to export the volumes with proper .asc file size
B4146	D-points not created properly while using "Create LFM D-points" command in PDMS	The issue is fixed and the user is now able to create D-points using the command in PDMS
B4366	"Points selection failed" if the user tries to measure if the 3D points are not loaded	The user is now unable to load a BubbleView if the dataset is not loaded. This is a temporary workaround. Enhancement #4877 ("Consider autoloading the dataset/presenting a message to the user when they try to open a BubbleView when the .lfd is not loaded") has been raised to cover the need for a more permanent/better solution
B4790	Opening a BubbleView is slow when there are demolished volumes within a project	The cause of the slowness has now been identified and removed. Opening a BubbleView in a project with demolished volumes is now just as fast as opening a BubbleView in a project with no demolished volumes
B4322	Using the "Show Clash Screenshot" function	Cause of crash identified and

	crashes LFM	removed. Function can now be used successfully
B4789	Progress bar for demolishing multiple volumes stops after the first volume demolished	The progress bar now updates for each volume queued for demolition
B4424	'Add' button in Volume tab is still available after volumes are passed across for demolition from CAD are reset	The 'Add' button is now unavailable when the user resets volumes passed across for demolition from CAD

## Gateway Mode error fixes for previous release: 4.3.0.24

<i>Internal Reference</i>	<i>Description</i>	<i>Solution</i>
B2727	Adding a survey resets the pre-registered scan positions	When a survey file is imported to the registered scan group, a warning message appears which says "The register group already has registered scans, reset regeneration?", thereby informing the user about the consequences of this action
B2915	No group menu option to close all open scans/BubbleViews. If the user has opened multiple scans/BubbleViews, potentially in multiple Register groups, they currently need to select each scan to close individually	The option to close all scans/BubbleViews is now available by right clicking on the register group. This will also be applied to any sub groups
B4093	Trying to import .prj files to a project results in the scan conversion failing with "Unknown Error"	Data which has been recorded by a scanner that has a third party import license will now convert successfully. Data which has been recorded by a scanner that does <b>not</b> have a third party import license will present the error "P20 API license key not valid" in the attributes window
B4535	"Error in small points file" when generating an .lfd on an 8 core machine immediately following scan conversion	Cause of error found and fixed. Dataset generation can be successfully carried out on an 8 core machine immediately following scan conversion
B4450	Disabling the 3D scan markers in the Options > User tab also turns of the display of 3D scan data	The 3D scan marker option can now be turned off independently of the 3D scan data display
B4473	LFM crashes on generation of a second dataset in the same session as the first dataset generation	LFM now warns the user that they must close and re-open LFM Server in order to generate a second dataset
B3035	Mixing colour and greyscale scans in the same dataset generation leads to bright red/green points for the greyscale data	Colour and greyscale scans can now be mixed correctly on dataset generation

**General/Server Mode error fixes for previous release: 4.3.0.20**

<i>Internal Reference</i>	<i>Description</i>	<i>Solution</i>
B4322	LFM Instant crash upon Show clash screenshot	LFM no longer crashes if the user clicks on Show clash screenshot
B4424	'Add' icon in Volume tab is not reset	The user now is able to disable the 'Add' with reset volume button

**Gateway Mode error fixes for previous release: 4.3.0.20**

<i>Internal Reference</i>	<i>Description</i>	<i>Solution</i>
B3035	Mixing greyscale and colour scans on generation results in incorrectly coloured points.	Greyscale and colour scans can now be mixed on generation and the resulting point cloud is correctly coloured.
B4450	3D points not displayed in Gateway Mode	3D points and scan locations are being displayed correctly
B4520	Regeneration of INT files from ZFC's causes horizontal and arced black stripes. This also affects the generation of HyperBubble Resources	The BubbleView now shows correctly when the user regenerates INT files from ZFC's
B4473	"Caught Unknown Error" exception followed with crash during dataset generation for an existing project	Now Dataset generation icon is not highlighted for generating the dataset for twice in same session
B3960	The positional coordinates are being displayed incorrectly when a .ptx file export is performed.	The system translation is now displayed correctly. The positional coordinate values are rightly shown when the .ptx file is exported. Also, .ptx when opened in word editor the positional values are correctly shown which matches with the scan headers positional coordinates in LFM.

## General/Server Mode error fixes for previous release: 4.3.0.18

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B4471	3D scan markers and point cloud data in different positions after .lfd generation resulting due to the system translation not being applied correctly to the 3D point data. This resulted in the user being unable to measure in the BubbleView within the LFM Server dataset (.lfd).	The system translation is now correctly applied to the 3D point data and so the 3D scan markers and point cloud data are now in correct place post-generation. The user is now able to measure in the BubbleView within the LFM Server dataset (.lfd).
B4122	During the volume selection process if the user presses the Enter key on the keyboard to accept the values in the “Volume Selection” dialogue – LFM crashes.	LFM no longer crashes if the user presses the Enter key to accept the values in the “Volume Selection” dialogue and the volume will be processed as expected. The user can also click on the OK button in the “Volume Selection” dialogue to achieve this.
B3862	Selecting a volume category for LFM NetView floorplans on LFM NetView project publication causes mismatched floorplans in the LFM NetView project	The user is now unable to select a volume category for LFM NetView floorplans. This will be in place until support for floorplans for volume categories is introduced.
B4094	ASCII export limited to 2 million points	ASCII export now limited to 20 million points
B4150	Stored volumes shift position after closing and re-opening an LFM project	Volumes now displayed in correct position after closing and re-opening the project
B4371	LFM NetView project publishing does not work on AMD graphics cards	Option to publish LFM NetView projects now available for AMD graphics cards
B3234	LFM log files have stopped recording the version of the graphics driver	Log files now correctly show the version of the graphics driver. Currently on line 10
B2381	Newly created projects are not entered into the “Open recent” menu	Projects are now added to the “Open recent” menu on creation rather than having to open the project manually in order for it to go into the “Open recent” menu

B1344	Some options (e.g. "Context clearance" and "Clipping planes" shown in decimal feet when IO Units set to Feet and Inches (fractions)	Options now display in Feet and Inches (fractions)
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**Gateway Mode error fixes for previous release: 4.3.0.18**

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B4265	LFM crashing on scan conversion	Crash now fixed, scans can now be imported successfully
B2631	BubbleView display a black “shadow” that tracks the movement of the BubbleView resulting in the user being unable to see data that is close to the scanner. This is caused by the BubbleView near clipping plane being set to 30cm	BubbleView near clipping plane now set to 1cm so the black “shadow” is removed and data can be seen correctly
B4376	.ptx files with both intensity and colour values do not display any 3D points if all intensity values are set to 0	3D points now display correctly according to the colour values
B2812	Volume limited dataset generation does not take the system translation into account – tells the user that no points intersect with the selected volume	System translation now applied – the volume that the user specifies is now in the correct position and intersects with the point cloud data as expected.
B4353	After importing .zfc files, the right click menu on a scan displays “Hide BubbleView” even though the BubbleView is not displayed	Right click menu now displays “Show BubbleView”
B4349	Importing existing .zfc files sometimes causes LFM to hang	Existing .zfc files can now be successfully imported
B4364	LFM prompts the user to name the group but not to save the project before continuing with generation.	LFM now prompts the user to save the project and name the group before proceeding with generation.

## General/Server Mode error fixes for previous release: 4.3.0.13

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B 3258 B 4091	LFM crashes when trying to connect to SmartPlant Review if the SmartPlant Review Point Cloud Integrator module is not installed	LFM now warns the user that the Point Cloud Integrator module is not installed
B 4067	Project loading hangs at 99% for a long time	Speed of project loading is now increased and there is no delay at 99%
B 2136	Changing the view direction in AutoCAD 2014 clips the point cloud	The full point cloud is now displayed correctly after changing the view direction
B 4124	If the project is read only, LFM warns the user of this when they open the project even though this only affects demolition	LFM now only warns the user if they attempt to carry out demolition
B 4023	Zoom to extents zooms to the project extents when a volume is selected in the SmartPlant review CAD link.	This function will now zoom to the extents of the volume if a volume is selected. If no volume is selected it will zoom to the extents of the entire project.
B 3982	Volume selection is centred around the wrong point if the user clicks on a position not containing a 3D point	LFM will now give a “point selection failed” message if the user tries to create a volume by picking on a position where there is no 3D point
B 2897	Points not shown in AutoCAD after initial connection until the zoom extents command is used	Points now display correctly after initial connection – zoom to extents no longer needs to be used in order to show the point cloud
B 4022	LFM does not use/update an existing options file. This means that some users who are upgrading from an older version are unable to save their options	LFM will now use and update an existing options file so the upgrade route is more seamless
B 4056	BubbleView is loaded but not brought to the front when dragging a scan into the main area	BubbleView is now loaded and brought to the front when dragging a scan into the main area

B 4125	Ability to toggle scan sites on/off from the main LFM interface rather than the options tab	There is now a “Scan Sites” button on the bottom toolbar which allows the user to toggle the scan sites on/off
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**General/Server Mode error fixes for previous release: 4.3.0.7**

<b>Internal Reference</b>	<b>Description</b>	<b>Solution</b>
B2726	If the units in SPR are switched to be different from the ones the .vue file was created in the point cloud will not be scaled correctly	Scaling now correct if the user switches units to be different from the ones the .vue file was created in
B2810	The desired project must be loaded in LFM Server before the connection to SPR can be made successfully	The desired project no longer needs to be loaded in LFM Server prior to connecting to SPR. The desired project is now loaded automatically after the user connects and specifies the location of the project using the Add Model button
B4011	Show BubbleView from picked point in SPR CAD link does not load the BubbleView	Now loads the most appropriate BubbleView for the point picked
B3912 B2303	Define volume around an element function in the SPR CAD link returns an incorrect volume	Volume returned is now around the selected element with the appropriate volume padding
B3970	Clash clearance and demolition clearance options cannot be set to below 2 inches	Both of these option can now be set to a minimum of 0 and a maximum of 4 inches
B3999	A temporary .pts file is not being deleted on successful completion of volume export to Autodesk Recap format	This temporary .pts file is now deleted when the export is successfully complete
B4001	Z depth of point cloud is incorrect when overlaid with an existing drawing in AutoCAD in 2D wireframe visual style	A warning is now presented to the user when this mode is selected. All other visual styles are now supported to compensate for this but performance may be impaired when using these visual styles
B1375 B1950	Terminology inconsistency	Changed various terms on the LFM interface to make them consistent/more clear



## Gateway Mode error fixes for previous release: 4.3.0.7

<b><i>Internal Reference</i></b>	<b><i>Description</i></b>	<b><i>Solution</i></b>
B1586 B2712 B3454	LFM crashes on converting certain .ptx files	The files that have been provided to LFM to show this issue now convert successfully
B3774	LFM does not automatically run the Prepare for PDMS function upon dataset generation. This means service providers have to do this manually to deliver to clients using PDMS clashing	LFM now runs the Prepare for PDMS function automatically upon dataset generation. Client can use the dataset for clashing in PDMS straight away

**General/Server Mode error fixes for previous release: 4.3.0.6**

<i>Internal Reference</i>	<i>Description</i>	<i>Solution</i>
B690	AutoCAD crashing on exit after LFM CAD link has been used	AutoCAD no longer crashes on exit after LFM CAD link has been used
B3911	CAD link point size reset back to 1 on LFM close	The value for this option is now maintained the next time LFM Server is used
B2136	Changing the view direction in AutoCAD 2014 clips the point cloud	All points now displayed correctly
B2897	Points not initially shown in AutoCAD unless zoom extents command is used	Points now displaying correctly on initial connection. Zoom to extents no longer required

**Gateway Mode error fixes for previous release: 4.3.0.6**

<i>Internal Reference</i>	<i>Description</i>	<i>Solution</i>
B2713	Registration status tab is slow to use with a large number of scans	Usage is now much quicker with large number of scans
B3910	LFM crashes when scan attributes undergo changes through Unify Group Properties	This function can now be used successfully
B3136	Unstructured .e57 files fail to convert giving "image size error"	Error message now provides more useful information: "This data is unstructured and is currently not supported". Request for unstructured data support raised as #3921
B2121	LFM crashes on import of monochrome .e57 files	Monochrome .e57 files can now be imported to LFM successfully
B3881	Points from scans not displayed inside volume if the user does not manually load the BubbleView for that scan	LFM now loads the BubbleView automatically when a volume is requested that contains that scan



## **Product QA cycle:**

The LFM Software development philosophy uses AGILE principles to ensure a high quality product which evolves to match customer requirements. Throughout the development cycle, test and evaluation is used to guide the process and minimise the final test overhead.

The final test process has three stages, and this document has been prepared after these have been completed. These stages are outlined below.

### **Individual Function Test**

All LFM desktop functionality is examined for correct responses. Functions called from the Main Menubar, Main Toolbar, Modelling Toolbars, and Component Browser are tested in turn. This ensures that the functionality matches the design intent, and previously recorded errors have been fixed.

### **Destructive Test**

This section of the test schedule is aimed at investigating to see if a software product exhibits proper behaviour when subjected to improper usage, or improper input. The tests are applied to different data samples, machines, and in a random manner to try to replicate 'real world' variations in user conditions.

### **Software Acceptance Tests**

LFM Software concludes the LFM test cycle with a series of controlled examples aimed at simulating real life use situations. The finished models are QA checked against calibrated historical data, to ensure that the product maintains the previous output standard.

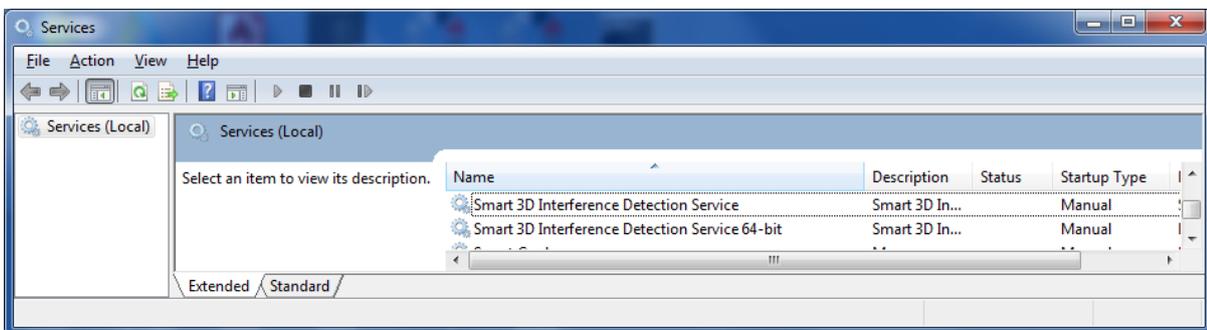
## Appendix 1 -Settings for Database Detection in S3D CAD link

SmartPlant 3D (S3D) is able to run a database clash detection service on any S3D project to allow the user to identify issues in there model. This steps below will detail the steps that are required in order to run the SmartPlants database clash detection with an LFM Server point cloud. It will be assumed you are already familiar with setting up a standard S3D clash detection server and that you already have some projects setup with LFM Server point clouds attached.

### 1. Stop the IFC service

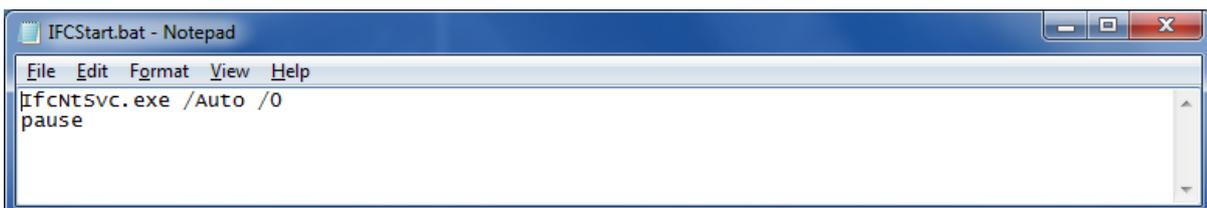
Note: The S3D Database clash detection is unable to clash point cloud data when it is being run as a standard service. To allow it to clash point cloud data it needs to be run as a process instead:

- Navigate to “Control Panel > All control Panel Items > Administrative Tools > Services”
- Turn off “SmartPlant 3D Interference Detection Service”



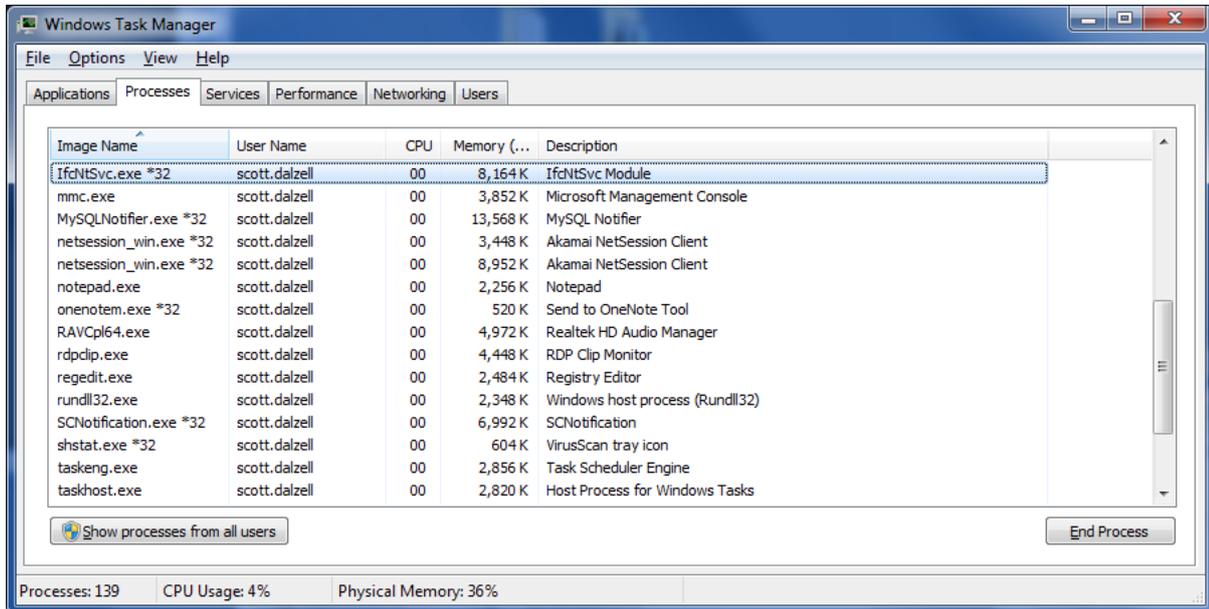
### 2. Create IFC process batchfile

- Navigate to “C:\Program Files (x86)\Smart3D\FoulCheck\Middle\bin”
- Create a batch file called “IFCStart.bat” with the following contents:



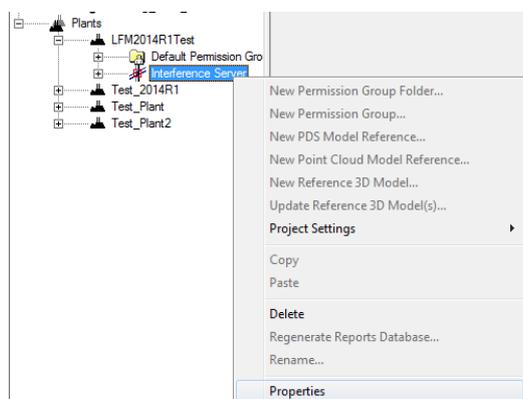
### 3. Run the IFC process batchfile

- Run “IFCStart.bat” as Administrator (this can be setup as a scheduled task if required)
- If you open the task manager you should see 1 instance of the “IfcNtSvc.exe \*32” running which indicates that the S3D clash detection is ready

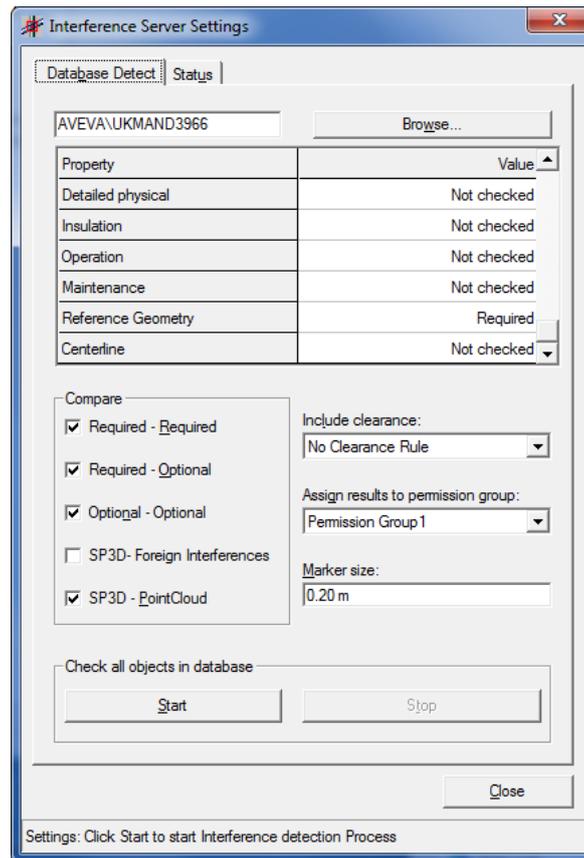


### 4. Configure the Database Clash Settings

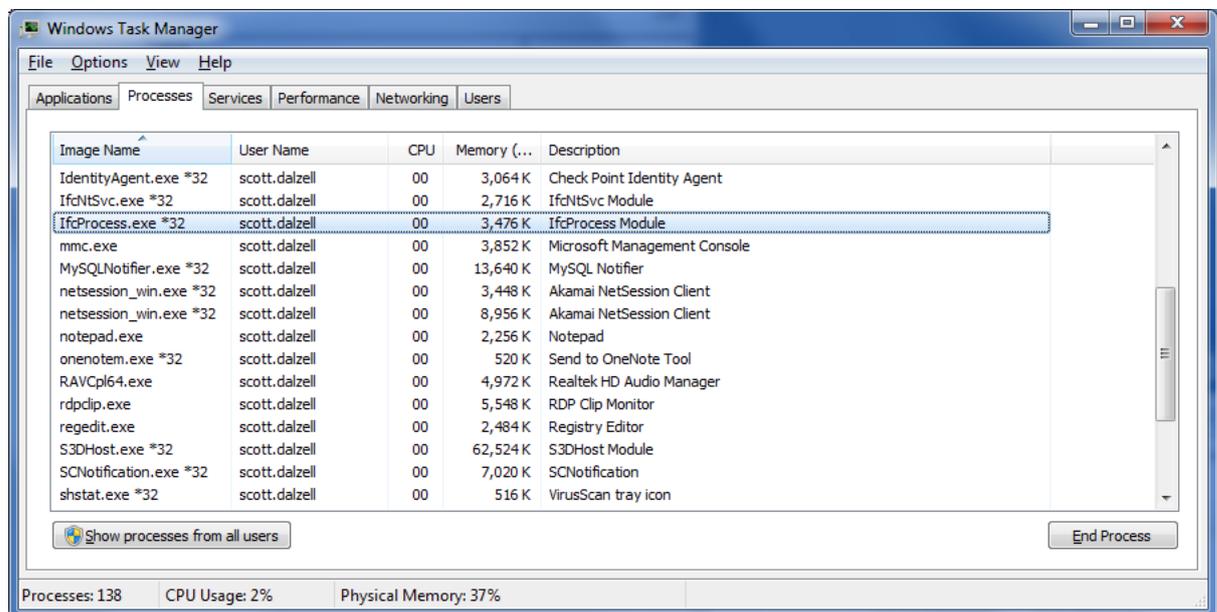
- Open S3D Project Management
- Select “[project] > Interference Server > properties”



- Setup the “Interference Server Settings” as you wish but ensure that the “SP3D – PointCloud” box is checked

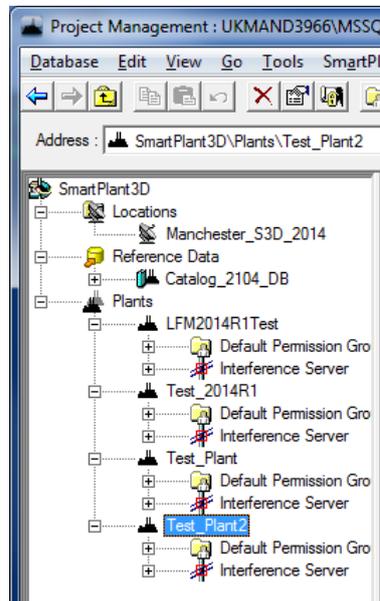


- Click “Start”
- After a few moments an “IfcProcess.exe” with start running, then LFM Server will start

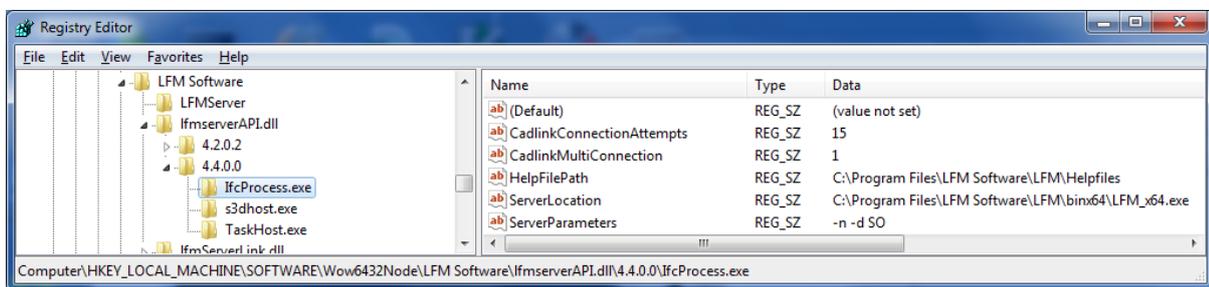


5. Allow multiple clash detections on 1 Server (optional)

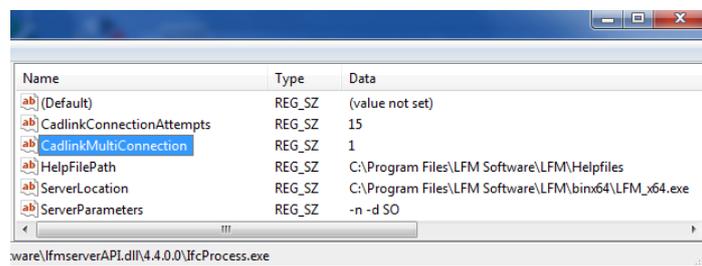
- Requirements: LFM Server 4.3.0.31/4.4.0.15 or greater
- Note: This last step is only valid if you want to use one server to run the clash detection for multiple S3D projects with LFM Server point cloud data



- Open Regedit.exe
- Navigate to HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\LFM Software\lfmserverAPI.dll\4.4.0.0\lfcProcess.exe



- Change the “CadlinkMultiConnection” key to “1”





This will instruct LFM Server to allow multiple S3D-LFM pairs so that the several clash detections can be run in parallel.

**Note:** Although there should be no limitation on how many instances of LFM Server can be run on one machine, be aware that the database clash detection can take a lot of resources so choose a server appropriate for the amount of projects you wish to run at once.