

Trimble

eCognition[®] 8.7.1

Release Notes

Trimble Documentation:
eCognition 8.7.1

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Imprint and Version

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Acknowledgments

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Contents

1 Overview	1
1.1 Overview	1
1.2 About eCognition 8.7.1	1
1.3 eCognition 8.7.1 Highlights	2
1.4 Key Features	2
Role-based eCognition clients for application developers and end users:	2
eCognition Server®	2
2 New Features, Bug Fixes and Limitations	3
2.1 New Features	3
2.2 Bug Fixes	3
2.3 Known Issues and Limitations	5
Maximum 10,000 thumbnails created for a Workspace.	5
Image Proxy Server (IPS) Cache for large images (> 2 ³² -1 bytes) created with eCognition 8.64.x IPS	5
Red Hat Enterprise Linux 5 64-bit – libungif Package Dependency for 32-bit Edition	5
2.4 Errata	5
3 Additional Information	7
3.1 Additional Information	7
Acknowledgments	9
The Visualization Toolkit (VTK) Copyright	9
ITK Copyright	10
libLAS Main License	10
include/liblas/cstdint.hpp	11
include/liblas/detail/Endian.hpp	12
include/liblas/detail/sha1.hpp	12
include/liblas/detail/sharedptr.hpp	13
python/tests/test_doctests.py	13
src/Verson.rc	13
src/gt_wkt_srs.cpp	14

1 Overview

1.1 Overview

eCognition 8.7 is a comprehensive image analysis platform for multi-dimensional image analysis. It contains all the client and server software needed to extract information from any digital image in a fully-automated or semi-automated way.

1.2 About eCognition 8.7.1

eCognition 8.7.1 is a minor update to eCognition 8.7 and includes a small number of important fixes. Trimble recommends updating to eCognition 8.7.1 for existing eCognition 8.7 customers and for customers migrating from older eCognition versions.

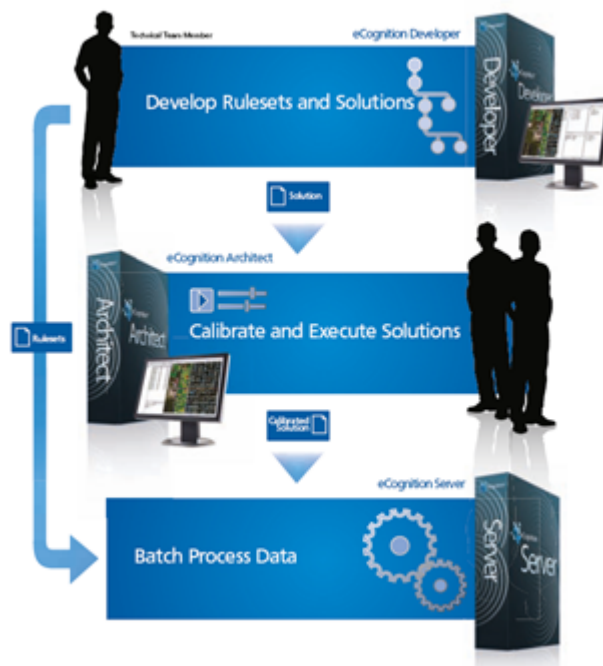


Figure 1.1. eCognition multi-dimensional image analysis software

1.3 eCognition 8.7.1 Highlights

- Object Based Point Cloud Analysis
 - Selective 3D (derive information directly from point cloud)
 - Workflow integration (load and export point clouds in *.las format)
 - Streamlined analysis (directly combine raster imagery and point cloud information)
- Machine Learning
 - State of the art algorithms (CART and SVM)
 - Tackle complex problems (Hyperspectral data)
 - Integrated statistical analysis (Combine OBIA with CART)
- Improved Development Environment
 - Arrays
 - Automatically generate classes from vector layers
 - Bug fixes and improved stability and reliability

1.4 Key Features

Role-based eCognition clients for application developers and end users:

- eCognition Developer
- eCognition Architect

eCognition Server[®]

A scalable, server-based batch processing environment for multidimensional analysis.

2 New Features, Bug Fixes and Limitations

2.1 New Features

See [table 2.1](#) on this page, *New features in eCognition 8.7.1*.

Table 2.1. New features in eCognition 8.7.1

Category	Reference	Description
Import Dialog	18458	Import Dialog: Folder recursion is now an option.
Import Dialog	18305	Use natural sorting for Import Dialog
Job Scheduler	18459	Job Scheduler: automatically re-read priority file without requiring Job scheduler restart.
Licensing	18402	Support of engine license sharing between several GRIDS.
SDK	18523	Created eCognition Cmd Clients installer for Linux 64-Bit.

2.2 Bug Fixes

See [table 2.2](#) on the current page, *Bug Fixes in eCognition 8.7.1*.

Table 2.2. Bug Fixes in eCognition 8.7.1

Category	Reference	Description
Architect	18534	Architect C++ crash on submit of solution: crash while saving workspace.
Architect	18353	Layer assignment not deleted in Architect Solution
Clients	18252	Shortcuts in Process Tree missing

Continues...

Category	Reference	Description
Developer	18354	Developer memory too low to view 3D scene.
Developer	18304	Developer crash - engine endless loop
Developer	18302	Class selection widget: available classes from array do not work properly
Developer	18223	Algorithm classifier (apply): Feature cannot be evaluated
Developer	18211	Certain JPEG 2000 images are not displayed correctly
Import Dialog	18505	Import Dialog: Incorrect selection of subfolders when double-clicked
Import Dialog	18282	Import dialog blocks access to certain directories
Local Engines	18408	Permission problem – embedded engines (Developer/eCognition) not running for standard Windows users under Windows 7 64-Bit
Maps	18518	Copy map with downscaling and rotate leads to black line in results
Maps	18517	Copy map crashes on 32-Bit Developer (not enough memory)
Developer	18381	Edit Linked Object Visualization function missing in product
Import	18491	LiDAR File Export: Classification only partly exported
Import	18371	LiDAR Converter: When working with subset converter fails generate pixels with value 0.
Import	18253	JPEG 2000 geocoding issue: Now we handle JPEG world files with negative resolution in the y direction
Licensing	18205	License borrowing tool not working correctly.
Lidar	18278	Misalignment of LiDAR dataset
SDK	18473	eCognition Cmd Client for Linux: missing shared libraries, drivers.cfg
Job Scheduler	18460	Multi-user permission problem with JobScheduler64.dat on Windows 7 64-Bit and related OS

2.3 Known Issues and Limitations

Maximum 10,000 thumbnails created for a Workspace.

The maximum number of thumbnails that will be created for a workspace is 10,000. Workspaces with greater than 10,000 images are supported but only 10,000 thumbnails will be created.

Image Proxy Server (IPS) Cache for large images (> 2³²-1 bytes) created with eCognition 8.64.x IPS

A bug has been corrected with the Image Proxy Server (8.64.x) that affects the image statistics calculation for large images. In eCognition 8.64.x this may have resulted in different results when comparing the analysis of images, with and without the IPS. The new version of the IPS will create the correct image statistics.

Any existing cache created by the IPS for these images (eCognition 8.64.x) will have the old incorrect image statistics and therefore may produce different results. If you wish to re-analyse existing cached images and produce the new (corrected) results it will be necessary to remove the previous slides from the cache. Please contact support@ecognition.com for specific advise regarding this topic.

Red Hat Enterprise Linux 5 64-bit – libungif Package Dependency for 32-bit Edition

Users who install the 32-bit server edition (or 32-bit package) on Red Hat 5 x64 should note that libungif is a required package.

2.4 Errata

None.

3 Additional Information

3.1 Additional Information

None.

Acknowledgments

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include/liblas/detail/sha1.hpp

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include/liblas/detail/sharedptr.hpp

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python/tests/test_doctests.py

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src/Verson.rc

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src/gt_wkt_srs.cpp

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