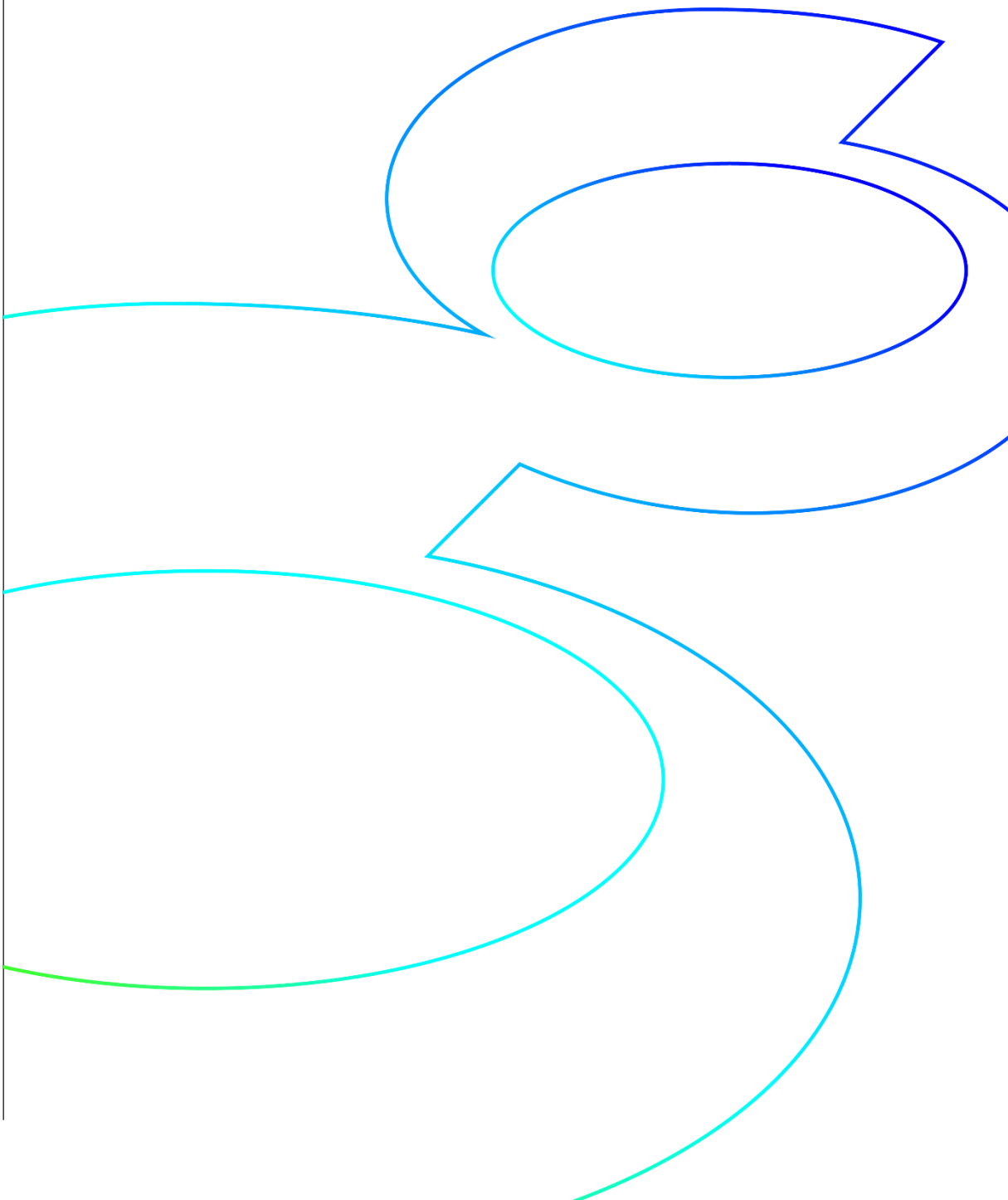
Release guide

Octave ImageStation 2025 Update 1

13 October 2026



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About this release

This document describes enhancements, fixes and system requirements for Octave ImageStation 2025 Update 1. Although the information in this document is current as of the product release, see the support site for the most current version.

This release includes both enhancements and fixes. For information on new features, see New technology. For information on fixes that were made for this release, see Issues resolved. For information on hardware and software requirements, see System requirements.

This document is an overview and does not provide all details about the product's capabilities. See online help and other documents provided with ImageStation for more information.

Octave ImageStation

Octave ImageStation (formerly ImageStation) enables digital photogrammetry production workflows, including project creation, orientation and triangulation from aerial and satellite imagery. It also provides stereo GIS feature collection and editing, digital terrain model (DTM) collection and editing, as well as orthophoto production and editing. ImageStation is specially designed for high-volume photogrammetry and production mapping customers who need to move large quantities of raw spatial information to an actionable or exploitable format.

New platforms

Octave GeoMedia and core components

ImageStation products are now compatible with Octave GeoMedia 2025 and its underlying core components, including shared raster and coordinate systems technologies.

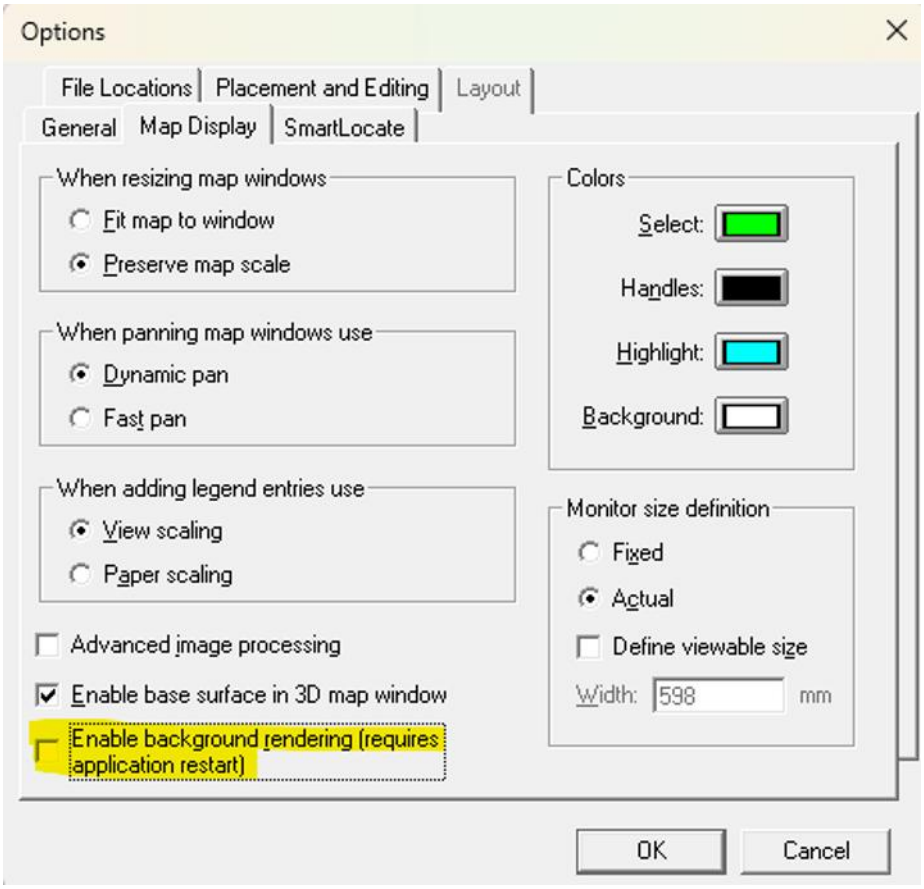
MicroStation

ImageStation products are now compatible with MicroStation CONNECT Edition Updates 16 and 17*; MicroStation 2023, 2024 and 2025; and OpenRoads Designer CE 2021, 2022, 2023, 2024 and 2025. Please see the Impacts statement below.

Impacts

GeoMedia 2025 background rendering

GeoMedia 2025 includes a background rendering option which unfortunately can cause problems for the raster display when using PixelQue. PixelQue users should disable this option from the **File > Options > Map Display** tab in GeoMedia prior to using PixelQue. Note that changing this option requires the user to restart GeoMedia for the change to take effect.



MicroStation CONNECT and OpenRoads Designer updates

ImageStation products that run in the MicroStation and OpenRoads Designer (ORD) CONNECT environment (ISSD, ISFC and ISDC) all use WorkSpaces and WorkSets to control the operating environment and allow the add-on programs to run successfully. Bentley Systems recently released **MicroStation Update 17, build *10.17.02.61***, which causes products to fail to start properly if the DGN file that is being opened has a WorkSet associated with it from an application that is not being started. For instance, if you have a DGN file that was opened with ISSD and try to open it with stand-alone ISFC or ISDC, the only options listed for WorkSets will be *ISSD* or *None*. Neither ISFC nor ISDC will be listed as it should be, and therefore they will fail to start properly. The same problem also occurs with **OpenRoads Designer CE 2022 Release 2, build 10.12.1.59** and **OpenRoads Designer CE 2022 Release 3, build 10.12.2.4.**

Note that this problem does not occur with the MicroStation Update 17, build *10.17.1.62* or any earlier versions of MicroStation CONNECT. It also does not occur with OpenRoads Designer 2022 CE Release 1.1, build *10.11.3.2* or earlier versions.

If you are always opening your DGNs with ISSD and don't use ISFC or ISDC in stand-alone mode, this will not be a problem for you. However, if you have

your own custom configurations and WorkSets it may cause a problem for you.

A support ticket has been opened with Bentley Systems for which it has logged Bug No.1207731, but as yet no solution has been offered. The only workaround is to open the DGN file in plain MicroStation or ORD, run the key-in command: ***file disassociateworkset***, then exit. You will then be prompted properly for a new WorkSet the next time you open the DGN file with another application.

Note that this issue is partially fixed in the MicroStation 2025 release. The user will be notified that the DGN file has another WorkSet associated with it and give the option to open the file with that previous WorkSet or no WorkSet at all. If the user opts to open with the previous WorkSet it will open with the one associated with the application used to start MicroStation, such as ISSD, ISFC or ISDC.

New technology

Licensing

A new product license is required for the 2025 release. The latest Geospatial Licensing 2025 application should be downloaded and used for this release.

Improved feature table upgrade (ISFC)

Since the 2023 release, the schema for the ISFC feature table was modified to only store level names instead of level numbers because MicroStation no longer requires the use/presence of level numbers. When opening an old format ISFC feature table for the first time with a newer version of ISFC, the feature table's schema is automatically updated to the new format. This update process has been modified to cross reference the existing level numbers in the active DGN file to their corresponding level names and inserts these names into the new feature table. A log file is provided to point out where no correlation was made between the two and a default level name assigned instead.

New satellite sensor support (ISPM, ISAT)

SuperView-1, TripleSat, DS-EO 1R and Pleiades Neo have been added to the list of supported satellite sensors for import and triangulation.

New Advanced Feature Matching option (ISAT)

A new Advanced Feature Matching option has been added to the Control Panel in ISAT. When selected, this option alters the method used for the first level of automatic point matching in an effort to obtain more matches for projects flown with unstable platforms.

Additional point cloud processing (ISDQ and ISDQ SM)

The ability to open and process Hexagon Smart Point Cloud (HSPC and HSPC.PACK) files using the Operate commands has been added to ISDQ. The ability to merge and reformat point cloud formats between LAS, LAZ, HSPC and HSPC.PACK formats has been added to ISDQ SM.

Ability to tile large TIFF elevation files

Previously, ISDQ had to read an entire file into memory before tiling it. That limitation has been removed so ISDQ is now able to tile very large 32-bit geotiff elevation files.

System requirements[1]

Computer/processor	• Intel 64 (EM64T) or equivalent • Multicore processors strongly recommended	
Memory (RAM)	• 16 GB minimum	
Disk space	• 8 GB for software delivery • Data storage requirements vary by mapping project[1]	
Operating systems	• Windows 11	
Database server engines	• Any GeoMedia-supported warehouse connection; see GeoMedia documentation for details on read-only and read-write database server connections and versions that are supported • SQL Server or SQL Server Express 2017, 2019 or 2022 (64-bit) is required for ImageStation DTM for GeoMedia	
Software	**ImageStation is compatible with the following software packages and may require them, depending on the modules used.** Geospatial Licensing 2025 is required for setting up a concurrent license server for concurrent licenses and is optional for activating node-locked licenses. This is included in the ImageStation setup under Supporting Software. Geospatial Licensing 2025 can be installed on a single computer for a system administrator to set up and manage a concurrent license server for an organization, or it can be installed on every machine if desired. ImageStation Photogrammetric Manager • Spatial Modeler RTE 2025 required for importing satellite RPC and IMAGINE Photogrammetry projects. This is included in the ImageStation setup under Project Management/Orientations and also under Supporting Software.	

	• ImageStation Image Formatter recommended. Licenses to run ISIF are included with ISPM. • NVIDIA Quadro/RTX graphics recommended – see specifications below ImageStation Automatic Triangulation • ImageStation Photogrammetric Manager is required • NVIDIA Quadro/RTX graphics, stereo-capable monitor, stereo glasses and 3D pointing device recommended. See the specifications below. ImageStation Satellite Triangulation • ImageStation Photogrammetric Manager and ImageStation Automatic Triangulation are required ImageStation Automatic Elevations • MicroStation CONNECT (Update 17, 2023, 2024, or 2025) or OpenRoads Designer CONNECT (CE 2021, 2023, 2024 or 2025) required for writing data to DGN format and must be installed first. ImageStation Automatic Elevations DSM • No prerequisites ImageStation DTMQue • Spatial Modeler RTE 2025 required for using ImageStation DTMQue Spatial Models (ISDQSM). This is included in the ImageStation setup under DTM Collection/Editing and Supporting Software. ImageStation Stereo Display ImageStation Feature Collection • MicroStation CONNECT (Update 17, 2023, 2024, or 2025) or OpenRoads Designer CONNECT (CE 2021, 2023, 2024 or 2025) is required • NVIDIA Quadro/RTX graphics, stereo-capable monitor, stereo glasses and 3D pointing device required for ISSD – see the specifications below

	ImageStation DTM Collection • MicroStation CONNECT (Update 17, 2023, 2024, or 2025) or OpenRoads Designer CONNECT (CE 2021, 2023, 2024 or 2025) is required • ImageStation Stereo Display and ImageStation Feature Collection are recommended ImageStation Stereo for GeoMedia • GeoMedia Advantage or Professional 2025 is required • NVIDIA Quadro/RTX graphics, stereo-capable monitor, stereo glasses and 3D pointing device required – see the specifications below ImageStation Stereo Viewer for GeoMedia • GeoMedia Essentials, Advantage or Professional 2025 is required • NVIDIA Quadro/RTX graphics, stereo-capable monitor and stereo glasses required. 3D pointing device recommended – see specifications below ImageStation DTM for GeoMedia • GeoMedia Essentials, Advantage or Professional 2025 is required • GeoMedia Advantage or Professional 2025, and ImageStation Stereo for GeoMedia are recommended • SQL Server or SQL Server Express 2017, 2019 or 2022 (64-bit) is required ImageStation OrthoPro ImageStation PixelQue • GeoMedia Essentials, Advantage or Professional 2025 is required ImageStation Image Formatter ImageStation Raster Utilities • No prerequisites
Graphics boards	• See table “Currently qualified graphics boards for stereo viewing”
Graphics displays	• See the NVIDIA Driver Configuration Instructions document for a list of supported monitors

Peripherals	3D pointing device (Z/I Mouse, softmouse 3D, Stealth 3D Mouse (E-Type, V-Type or Z-Type) or TopoMouse) required for ISSD and ISSG, and recommended for ISSV and ISAT Software security (Geospatial Licensing 2025) requires one of the following: • Internet connection for online license activation • Ethernet card for offline license activation • One USB port for hardware key for offline license activation

Currently qualified graphics boards for stereo viewing[2]

Graphics board	NVIDIA 3D Active 1 display	NVIDIA 3D Active 2 displays (stereo/mono)	NVIDIA 3D Active 2 displays (stereo/stereo)
RTX A Series	Yes	Yes	Yes
RTX T Series	Yes	Yes	Yes
Quadro GP100[5]	Yes	Yes	Yes[3]
Quadro RTX4000	Yes[3]	Yes[3]	Yes[4]
Quadro P6000[5]	Yes	Yes	Yes[3]
Quadro P5000[5]	Yes	Yes	Yes[3]
Quadro P4000	Yes[3]	Yes[3]	Yes[4]
Quadro P2000	Yes[3]	Yes[3]	Yes[4]
Quadro M6000	Yes	Yes	Yes
Quadro M5000	Yes	Yes	Yes[3]
Quadro M4000	Yes[3]	Yes[3]	Yes[4]

Quadro K6000	Yes	Yes	Yes
Quadro K5200	Yes	Yes	Yes
Quadro K5000	Yes	Yes	Yes
Quadro K4200	Yes	Yes	Yes[3]
Quadro K4000	Yes	Yes	Yes[3]
Quadro K2200	Yes	Yes	Yes[3]

System requirements notes

[1] Disk I/O is usually the slowest task in geospatial data processing. Faster hard disks improve productivity. Reading data from one disk, writing temporary data to a second disk and writing final data to a third disk improves performance. Disk arrays improve productivity, but some RAID options slow performance. Network disk drives are subject to network limitations.

[2] Refer to the Installation guide in the ImageStation product delivery for driver version, installation and stereo configuration instructions.

[3] DP to DVI-D dual-link adaptor required for monitors using DVI ports. **Important** - Be sure to get dual-link adaptors that are USB powered, such as the **BizLink XT625 (KS10014)** or the **Accell B087B-002B** (or **B087B-007B)** models. All DVI monitor cables must be **dual-link** DVI to support stereo display.

[4] Two DP to DVI-D dual-link adaptors required.

[5] These cards require 8-pin PCIe power cables. Make sure your computer's power supply provides this type of power cable or use a 6-pin to 8-pin PCIe power adaptor cable.

Active stereo displays require stereo glasses and an emitter. Since NVIDIA has discontinued its 3D Vision Kit, an alternative kit must be used. Alternative kits are available from Stealth International, 3DTV Corporation and Amazon.

Issues resolved

ImageStation Orientations (ISPM, ISAT and ISST)

Support ticket	Description
00484272	ISAT Photo Triangulation Compute crash

ImageStation Orientations (ISPM, ISAT and ISST) (Update 1)

Support ticket	Description
00595834	Satellite Reformat fails for 6-band PNEO images

ImageStation Stereo Display (ISSD)

Support ticket	Description
00240846	Failure to honor level override symbology in the stereo display
00311852	Dynamics while editing features in the stereo view move opposite to the expected direction of the stereo cursor
00470157 00473678	ISSD randomly fails to start because stereo check on monitor fails

ImageStation Stereo Display (ISSD) (Update 1)

Support ticket	Description
00591161	Fails to start on some systems

ImageStation Feature Collection (ISFC)

Support ticket	Description
00225860	Custom line styles cause a crash or cause features to disappear after placement in dual digitizing mode
00194264	Modify cell placement to honor Annotate Scale option

ImageStation OrthoPro (ISOP)

Support ticket	Description
00171826	Different error messages were being displayed while automatically inserting newly created raster files into GeoMedia. OrthoPro rectify warning of access violation
00451047	Butt matched seamlines were not being generated correctly

00453459	Allow imagery to be written outside user defined product footprint HKEY_CURRENT_USER\SOFTWARE\Intergraph\MosaicPipe\bBlackFillRotationArea=dword:00000000
00187956	Redigitizing seamlines using the OrthoPro command is much slower than when using GeoMedia's Redigitize command

ImageStation OrthoPro (ISOP) (Update 1)

Support ticket	Description
00594328	Class not registered message when trying to start OrthoPro

ImageStation PixelQue (ISPQ)

Support ticket	Description
00205209	Image "tearing" occurs while panning rasters in the map views

ImageStation PixelQue (ISPQ) (Update 1)

Support ticket	Description
00544544	Add Folder option doesn't work for Add Images command
00544544	Can't specify output folder name for more than one file at a time in Apply LUT command

ImageStation Stereo for GeoMedia (ISSG)

Support ticket	Description
IG-32135	License remains checked out even when ISSG/ISSV is not in use

ImageStation Stereo for GeoMedia (ISSG) (Update 1)

Support ticket	Description
IG-38559	Exiting with more than one stereo view causes crash on exit
IG-38572	Saving a GWS with stereo views active leaves GWS in bad state upon re-entry
IG-38899	Orphaned GeoMedia Desktop process is left behind if SSE is invoked prior to activating stereo model with Select Model command

Deprecated

TerraShare Read/Write

The ability to use ImageStation Photogrammetric Manager (ISPM) to create ImageStation projects in a TerraShare repository has been deprecated. Likewise, the ability to read projects from a TerraShare repository has been deprecated from all ImageStation applications.

VisionMap A3

The ability to use ImageStation Photogrammetric Manager (ISPM) to create ImageStation projects for use with VisionMap A3 sensors has been deprecated as support is no longer available from the original vendor.

Remove Shadow Points

The option to Remove Shadow Points on the ISAT Control Panel user interface has been removed. The real estate on the dialog has been used to add the Advanced Feature Matching option, which uses a new algorithm for attempting matches at the first level of automated point matching.

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