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WHAT'S NEW IN **POWER PORTFOLIO 2018**



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POWER PORTFOLIO OVERVIEW

Understanding change and deriving the information you require to make mission- and business-critical decisions is imperative to you. With creative and intuitive interfaces, smart workflows, and automated technologies, use the **Hexagon Geospatial Power Portfolio** to transform multi-source content into actionable information.

For simplicity, the Power Portfolio organizes our products into suites, combining the best photogrammetry, remote sensing, GIS and cartography technologies available. The Producer, Provider and Platform suites contain the globally-recognized products that you rely on every day.



PRODUCER SUITE

Collect, process, analyze,
and **understand** raw
geospatial data



PROVIDER SUITE

Easily **store, discover,**
manage, and **deliver** your
data across desktop, web
and mobile applications



PLATFORM SUITE

Create your own unique
application on top of a solid
foundation of powerful
geospatial functionality



RELEASE HIGHLIGHTS

Hexagon Geospatial makes strides in smart situational awareness with expanded data viewing and analysis capabilities in the **Power Portfolio 2018** release. Through many new features and updates to each product suite, we provide the necessary technology to further industries such as defense and smart cities, while aiding in the growth of dynamic information services.



PRODUCER SUITE

Access the latest data and view it from more perspectives so you can analyze situations and predict outcomes.

- **Harness the power of machine learning** – Use machine-learning processes in Spatial Modeler to enable your data to make predictions. Many new operators in Spatial Modeler increase the power of ERDAS IMAGINE and GeoMedia.
- **Connect to emerging data sources when you need them** – Access the world's ever-expanding library of satellite, radar, vector, and UAV data sources so that your decisions keep pace in fast-moving markets.
- **Bring high-precision accuracy to UAV imagery** – Combine high-volume production-level precision photogrammetry with lower-cost drone imagery. ImageStation joins ERDAS IMAGINE, GeoMedia, and IMAGINE Photogrammetry in delivering a full spectrum of imagery solutions.
- **Experience an immersive, first-person view of your data** – Move one step closer to true situational awareness with a 360-degree view of your data in GeoMedia 3D.



PROVIDER SUITE

Find and deliver the right data, at the right time, to securely share information and make informed decisions.

- **Quickly integrate streamlined web services** – RESTful APIs make it fast and easy to include ERDAS APOLLO web services in your project.
- **More options for securing your data** – We now support Single Sign-On, through Integrated Windows Authentication, improving both security and end-user experience.
- **Get data to stakeholders faster** – Save days, or even weeks, delivering your data to the field by compressing it 5x faster to ECW or JPEG2000 format.



PLATFORM SUITE

Take advantage of dynamic information services in customized workflows that let your users make smart decisions no matter where they are.

- **Vector features revealed** – Consumer layout displays vector features and tooltips, providing more context for making smarter decisions.
- **Perform mobile fieldwork, even without network connectivity** – Whether online or offline, use OGC GeoPackage standards to streamline mobile workflows, delivering the latest raster and vector data to all your mobile devices.
- **Put your workflow in context** – Add OpenStreetMap into your GeoMedia Smart Client applications to provide an easy, inexpensive base map.



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POWER Portfolio
**Producer
Suite**

PRODUCER SUITE

Producer Suite® empowers you to collect, process, analyze, and understand raw geospatial data, and ultimately deliver usable information. This includes Hexagon Geospatial's desktop-based GIS, remote sensing, and photogrammetry offerings.



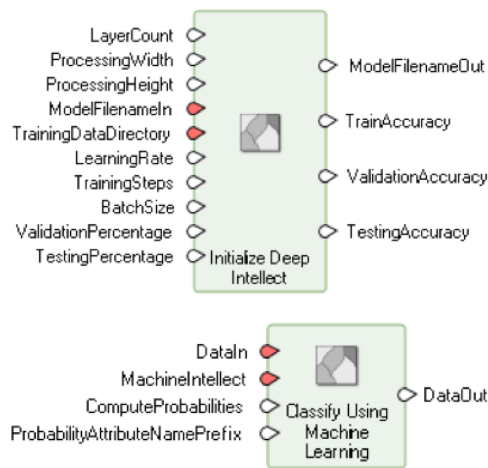


ERDAS IMAGINE

ERDAS IMAGINE® performs advanced remote sensing analysis and spatial modelling to create new information. With ERDAS IMAGINE, you can visualize your results in 2D, 3D, movies, and on cartographic-quality map compositions. Optional modules (add-ons) provide specialized functionalities to enhance your productivity and expand capabilities.

TAKE ADVANTAGE OF ALL YOUR HARDWARE

ERDAS IMAGINE interface now runs natively in 64-bit, enabling embedded components such as the 2D View and Spatial Model Editor to leverage more of your available system memory and CPUs. Along with streamlined algorithms, this also provides more efficient execution of ERDAS IMAGINE in general.



NEW OPERATORS ENABLE MACHINE-LEARNING CLASSIFICATION

Classification algorithms based on machine learning have been implemented as operators in Spatial Modeler. These new operators can be used to perform multi-class prediction.

SENSOR INDEPENDENT COMPLEX DATA (SICD) SUPPORT TO BETTER READ SAR IMAGERY

Modern SAR imagery is often distributed in NITF format with SICD geometry information. Now ERDAS IMAGINE can directly read SICD imagery as well as provide processing options such as orthorectification.

EXPLOIT MULTI-SEGMENT NITF TO BETTER UNDERSTAND YOUR IMAGERY

Modern NITF data can consist of multiple image segments, such as pixel quality information, cloud cover, and multiple tiles of a single image. You can now access and exploit this data much more easily.

EASIER TO SET UP BATCH PROCESSING FOR SPATIAL MODELER

In the Batch dialog, an option has been added to send the subset command to the Batch Editor in a similar form to the way it was populated in ERDAS IMAGINE 2016 and prior. This alleviates the complication of exposing more variables than the user generally wanted to set to perform the batch process that had been created by using the newer Spatial Modeler.

BUILD FEATURE EXTRACTION WORKFLOWS AND CUSTOM CLASSIFIERS WITH NEW OPERATORS

Hexagon Geospatial is porting IMAGINE Objective functionality into our powerful Spatial Modeler. Several IMAGINE Objective functionalities (such as classifiers, raster cues, vector cues, vector cleanup operators) are now available as operators, and you can use them to build feature extraction workflows. Using the extensibility of Spatial Modeler, you can also create and use your own classifiers or cues to fit your specific application.



NEW ATMOSPHERIC CORRECTION OPERATOR ENABLES EASIER CHANGE DETECTION, FEATURE EXTRACTION

Building on the algorithms implemented in the Rapid Atmospheric Correction spatial operator, we added a new spatial operator named Generic Atmospheric. This operator enables any 16-bit imagery with at least four bands in the wavelength range from Coastal Blue to NIR2 to be atmospherically corrected to ground reflectance based on parameters that can be derived from the image header. Correcting to ground reflectance has the advantage of normalizing scene-to-scene variations, which in turn makes tasks such as change detection, standardized classification, and other feature extraction tasks more straightforward.

MODERN HIGHER-RESOLUTION IMAGERY SUPPORTED IN 2D VIEW'S SCALE MENU

To support modern higher resolution imagery, additional “zoom to” scale options have been added to the 2D View's Scale menu.

COLORS CAN INDICATE SECURITY FOR CLASSIFIED ENVIRONMENTS

To support use of the software in classified environments, different colors can be displayed in the title bar of the 2D View based on the security classification of the imagery being displayed.

EASIER TO OPEN NITF FILES WITH MULTIPLE SEGMENTS

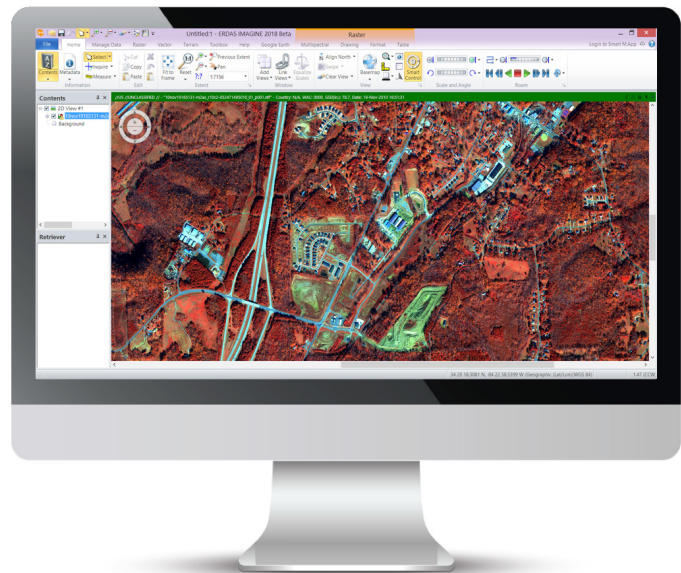
NITF files containing multiple segments (including vector overlays) can now be accessed in one step using the NITF Segments file type. Using this option to open a NITF file loads all displayable segments into a single 2D View as individual layers.

NEW STATE-OF-THE-ART PAN SHARPENING OPERATOR FOR EXPLOITING MULTISPECTRAL DATA

Nearest Neighbor Diffuse (NNDiffuse) algorithm is a state-of-the-art pan sharpening technique to fuse images, originally developed by Rochester Institute of Technology Digital Imaging and Remote Sensing Laboratory. Now the algorithm is available as an operator for use in building Spatial Models capable of deriving information from high resolution multispectral data.

EASIER TO CREATE FOREST CANOPY MODELS AND BUILDING HEIGHT FROM POINT CLOUD DATA

Converting point clouds to height above ground makes it easier to create flooding, building height, and forest canopy models based on point cloud data.



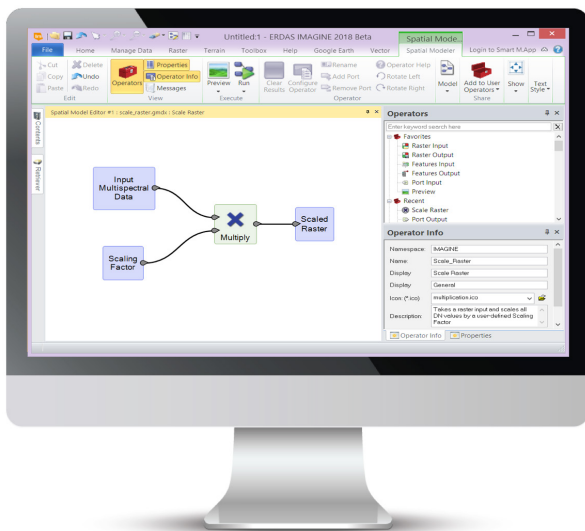


NEW OPERATOR FACILITATES SPATIAL MODELS WITH ALGORITHMS USING METADATA-DERIVED INPUTS

Read Sensor Metadata operator parses ancillary metadata files provided with imagery to create a dictionary of information about the image. By having this information available, it is much easier to construct Spatial Models that apply algorithms, such as atmospheric correction, whose inputs are automatically derived from available metadata.

SPATIAL MODELS CAN BE USED AS OPERATORS FOR EASY REUSE IN OTHER MODELS

Spatial Models can now be treated as operators in their own right and added to the Operators panel for easy reuse in other models.



LEVERAGE INVESTMENTS IN OTHER HEXAGON GEOSPATIAL PRODUCTS IN SPATIAL MODEL EDITOR

ArcPy (Python site package) scripts are now recognized and you can add them as spatial operators in the Spatial Model Editor operators list. Then you can use them in combinations with other operators to leverage the strengths of both ERDAS IMAGINE and GeoMedia in a Spatial Model.

SENTINEL-2 FORMAT UPDATE SOLVES LONG PATHNAMES ISSUE

ERDAS IMAGINE can now directly read the updated format for Sentinel-2 satellite data introduced by ESA in late 2016 for Level 1C data to alleviate problems with using long pathnames on Windows computers.

SENTINEL-2 “TRUE COLOR” BAND COMBINATION OPTION LETS YOU CHOOSE YOUR BLUE BAND

Previously, when using Sentinel-2 13-band data and choosing the True Color band combination (under Multispectral tab), the software used bands 4,3,1 for RGB. The problem is that band 1 of Sentinel-2 data has a lower resolution (60m compared to 10m of bands 4,3,2) and consequently some prefer to use band 2 for Blue, rather than band 1. An option has been added to support this.

PLANET IMAGERY FORMAT UPDATE IS NOW ENABLED

ERDAS IMAGINE can directly read data in the revised formatting from Planet for RapidEye and PlanetScope imagery, implemented in late 2016.

MORE BAND OPTIONS FOR LANDSAT 8 AND WORLDVIEW-3 MAKE BAND SELECTION MORE INTUITIVE

Additional false-color display band combination options have been added for Landsat 8 and WorldView-3 imagery. Such predefined combinations make band selection much more intuitive to the user, especially when considering imagery with many bands.



SET BAND NAMES OPERATOR ENABLES BAND NAMING FOR EASIER DISTINCTION

To assist a user in understanding the information that is being presented in particular bands of an image, the Set Band Names operator enables the layer-specific naming of each band to be set prior to writing out a raster file from a Spatial Model.

USE YOUR OWN ALGORITHMS TO DETECT THE CHANGES YOU WANT TO SEE

Zonal Change detection architecture has been modified to accept custom change detection algorithms. You can now use your own algorithms that better detect changes that are of interest to you. Several optional algorithms are available to choose from as well.

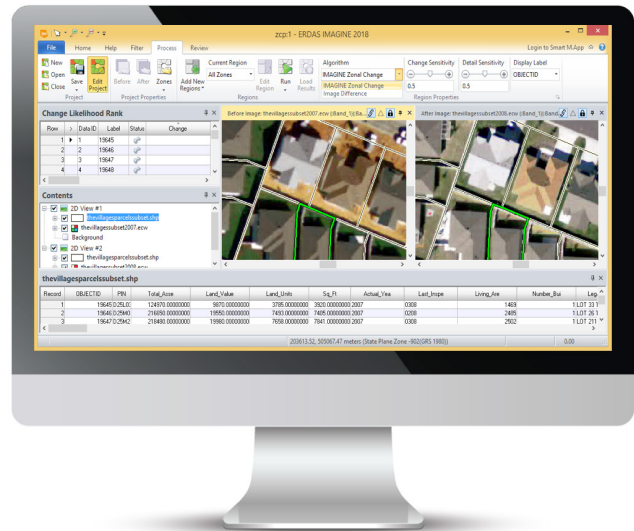
ADDITIONAL NEW SENSOR SUPPORT

ERDAS IMAGINE can read the following platforms, and many can also be orthorectified using RPC and other sensor models.

- PeruSAT
- Göktürk
- PlanetScope

MORE INTUITIVE VARIABLE USE IN EDIT IMAGE METADATA (IMAGE COMMAND TOOL) FOR BATCH PROCESSING

A long-standing dissatisfaction with using the Edit Image Metadata tool to set up a batch job to set the Projection information on a set of imagery (such as TIFF files that only had World File information) was that it was too easy to override the geographic extents of all the images and set them to exactly the same values. This would happen because when Map Info Options dialog was used to set the desired Projection, the dialog also passed in the Map Extent of the first image. Unless you noticed this (and manually set up variables), that single map extent would then be applied by the Batch process to all the input images, along with the desired Projection. In ERDAS IMAGINE 2018, Edit Image Metadata tool has been enhanced so that the Upper Left X, Upper Left Y, Pixel Size X and Pixel Size Y parameters are passed to Batch as variables that pull their information from each input image being processed. Only Projection and Units are passed as fixed values.



NEW IMAGINE SAR FEATURE USER GUIDE DETAILS RADAR WORKFLOWS

In the new IMAGINE SAR Feature User Guide, users can learn how to produce a radar image or image-maps product for (near) real-time noise suppression (Despeckle), Image Annealing, Target Detection, Change Detection, and template-based Feature Extraction.

SUPPORT OF POSTGIS DATABASE AND FEATURE DATA IN CSV FORMAT

PostGIS database support has been added. Feature data can now be read and stored as CSV (comma-separated values) format files.

NEW FEATURE-BASED OPERATORS ENABLE FEATURE EDITING AND QUERYING

Rename and remove attributes, change primary geometry, and query feature information using new feature-based operators.

WORLDVIEW-4 SUPPORT ENABLES DIRECT READING AND ORTHORECTIFICATION

ERDAS IMAGINE can directly read WorldView-4 imagery from DigitalGlobe, including the ability to orthorectify the imagery.

UPGRADED GEODATABASE SUPPORT TO ARCGIS 10.5

ERDAS IMAGINE has upgraded geodatabase support to ArcGIS 10.5.

UPDATED TO THE LATEST EPSG PROJECTION DATASET

All modules of ERDAS IMAGINE have been updated to include the latest EPSG projection dataset.

LIVE-LINK WITH GOOGLE EARTH PRO

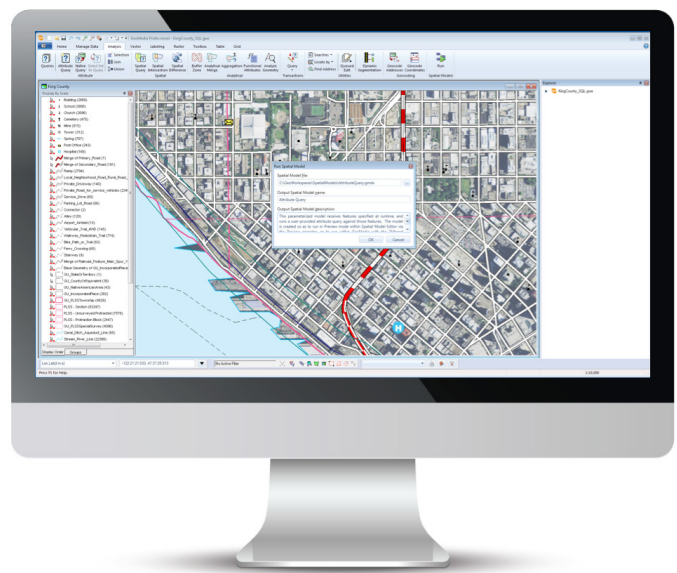
With the release of Google Earth Pro v7.3x, Google addressed a bug in their COM server that prevented ERDAS IMAGINE's live-link feature from working correctly with it. When Google Earth Pro v7.3x is installed, ERDAS IMAGINE 2018 displays the Google Earth tab, starts Google Earth Pro and enables connectivity to it.

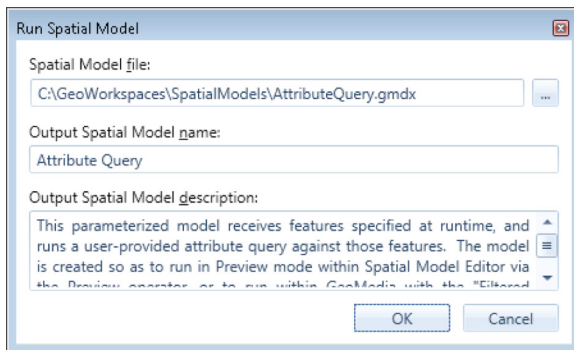
GEOMEDIA

GeoMedia® is a flexible and dynamic GIS package for creating, updating, managing, and analyzing your valuable geospatial information. Generate and update vector layers. Perform dynamic spatial analysis and generate reports. Automatically create and update maps. Manage data and map production more efficiently.

NEW READ-WRITE DATA SERVER FOR OGC-COMPLIANT AND PLATFORM-INDEPENDENT GEOPACKAGE

GeoMedia's data access capabilities continue to expand and improve with the addition of a read-write data server for GeoPackage, an OGC standard. GeoPackage is an open, non-proprietary, platform-independent database for geospatial information. GeoMedia delivers a GeoPackage template database and has updated GeoMedia commands to support GeoPackage throughout the product.





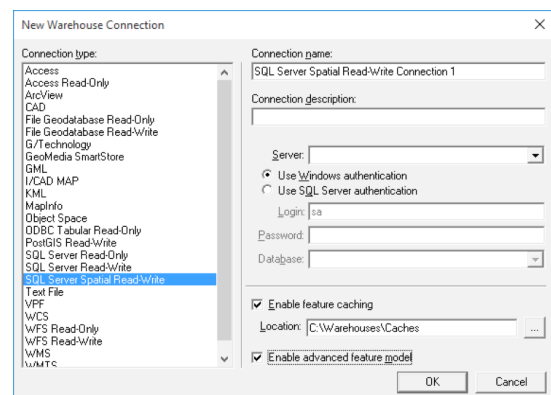
NEW SPATIAL MODEL OPERATORS, EXPANDED EDITOR, ENHANCED RUN SPATIAL MODEL AND EXPLORER WINDOW COMMANDS

GeoMedia continues to extend its geospatial capabilities by providing additional analytical tools to support Spatial Modeling workflows. We have developed new spatial operators, expanded the use of the Spatial Model Editor, and enhanced the Run Spatial Model and Explorer Window commands. In this robust environment, you can visually author complex, parameterized models for processing vector or raster

data. You can execute Spatial Models inside of GeoMedia, store the results within the GeoWorkspace, and then perform additional post-processing on the Spatial Model output results.

FEATURE CACHING IMPROVEMENTS FOR ADVANCED FEATURE MODEL (AFM)-ENABLED WAREHOUSES

Performance improvements that come with vector feature caching are now available for GeoMedia warehouses that are enabled for GeoMedia's Advanced Feature Model (AFM), in which users can define associations and rules between feature classes, for example, digitizing, editing, validating, network tracing, and dimensioning.

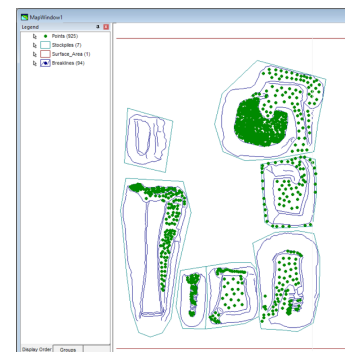


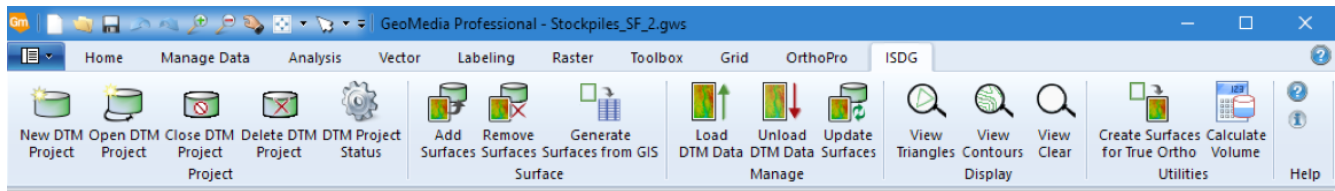
IMAGESTATION

ImageStation® software suite 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.

BRING PROFESSIONAL QUALITY TO UAV DATA PROCESSING

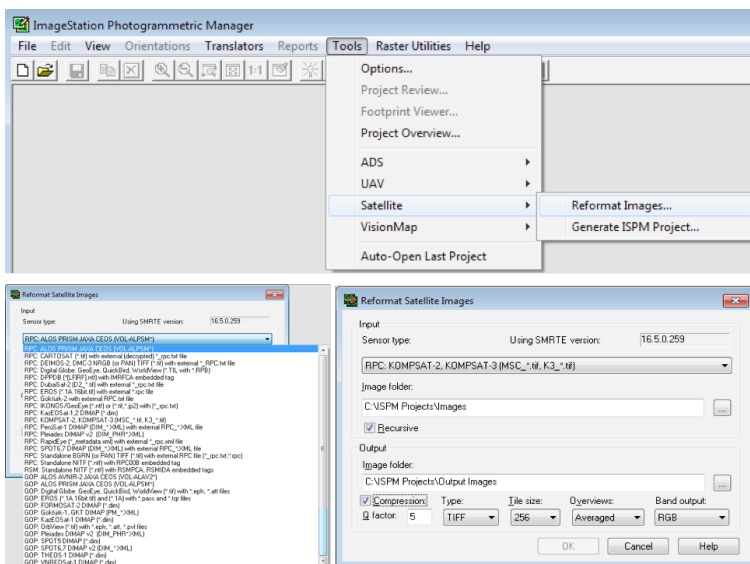
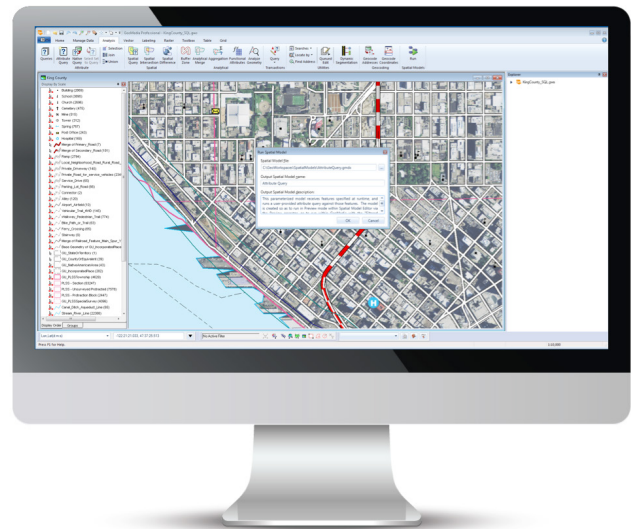
ImageStation has streamlined the data input from low-cost UAVs, leveraging your existing ImageStation investment and experience. Now, you can process UAV data using the same ImageStation tools and workflows, with the same level of control as with aerial and satellite data.





NEW AND IMPROVED VOLUME CALCULATION AND ELEVATION PROCESSING FOR BETTER USER EXPERIENCE

ImageStation DTM for GeoMedia has added a new command for calculating volumes of surface, such as stockpiles for cut and fill analysis. The Calculate Volume command can be executed on either a single area or subsets, and produces a textual report with the results. Further elevation processing is improved in ImageStation DTMQue with a new dialog, based on over 30 Spatial Models, for better overall user experience.



EXPANDED HIGH-RESOLUTION SATELLITE SUPPORT

We expanded satellite support of RPC-formatted data to include support for many additional sensors, such as Pleiades, SPOT-6, SPOT-7, KOMPSAT, and RapidEye. Now you can maximize the use of nearly every commercial high-resolution satellite source.

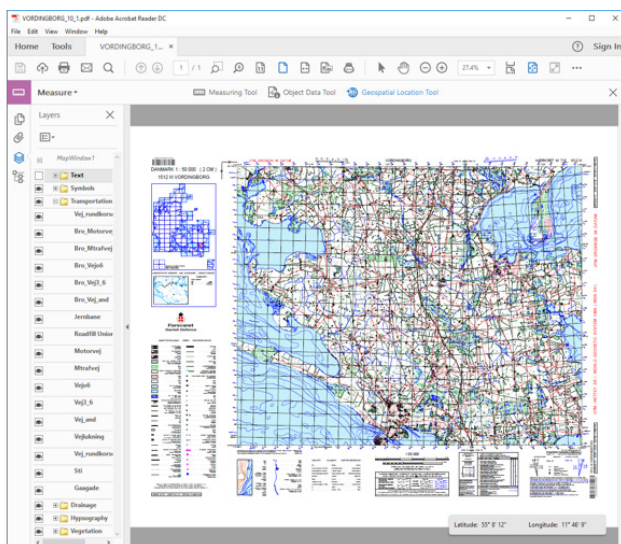
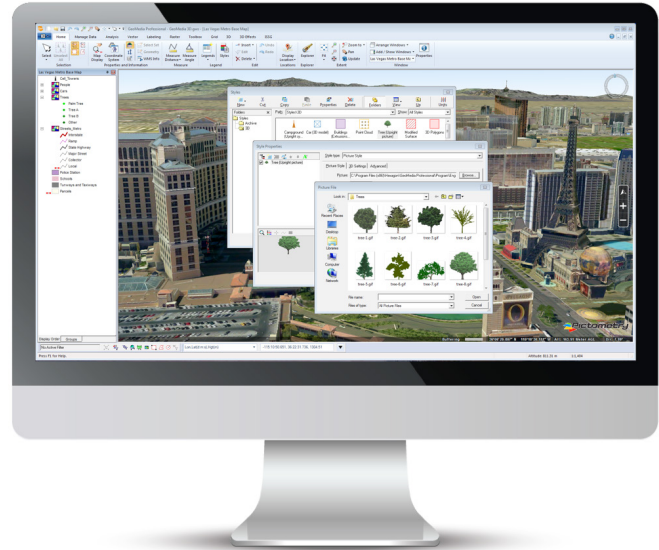
GEOMEDIA ADD-ONS

GeoMedia Add-ons enhanced for 2018 include GeoMedia 3D, GeoMedia Motion Video Analyst Professional, and GeoMedia PDF.

GEOMEDIA 3D DELIVERS LIBRARY WITH PREDEFINED STYLES AND VIEW TO "STEP INSIDE" YOUR DATA

GeoMedia 3D now delivers a style library that contains several predefined 3D styles for use in the GeoMedia 3D window. These include styles for 3D mesh layers, 3D polygons, buildings (extrusions), buildings (models), modified surface, point clouds, and viewsheds. These predefined styles are automatically loaded into the 3D workspace with all required underlying style parameters populated, giving you a head start with GeoMedia 3D.

First Person View, a new navigation capability in GeoMedia 3D, makes it easier to get a realistic perspective of the surrounding landscape. This navigation mode simulates a “walk through the 3D scene” by establishing the height and field of view for the viewer, allowing the viewer to focus on what is directly ahead (both up and down) as well as what is behind.



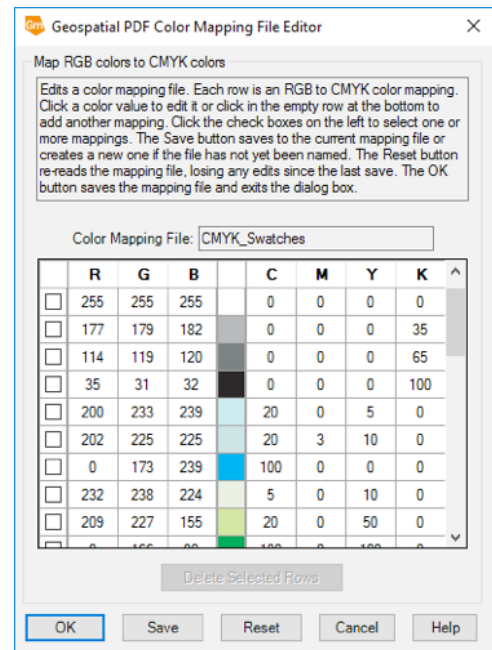
GEOMEDIA MOTION VIDEO ANALYST PROFESSIONAL UPGRADES LIVE STREAMING AND FUSING OF GEOREFERENCED VIDEO

GeoMedia Motion Video Analyst now supports version 4.2 of Catalina Ground Station from Insitu. With Catalina Ground Station, users can stream live, georeferenced video, and fuse it with other geospatial information, gaining an understanding of the video's geospatial content. Catalina Ground Station is available for both multi-user and single-user environments.



NEW GEOMEDIA PDF IS ISO-COMPLIANT AND PROVIDES A BETTER WAY TO PRODUCE GEOREFERENCED PDF DATA

Conforming to the ISO standard for georeferencing PDF data, GeoMedia PDF replaces the GeoMedia GeoPDF Publisher product. GeoMedia PDF continues to provide support for defining layers, attributes, metadata and CMYK definitions for the output Geospatial PDF file. In addition, GeoMedia PDF overcomes many of the reported issues with GeoMedia GeoPDF Publisher.





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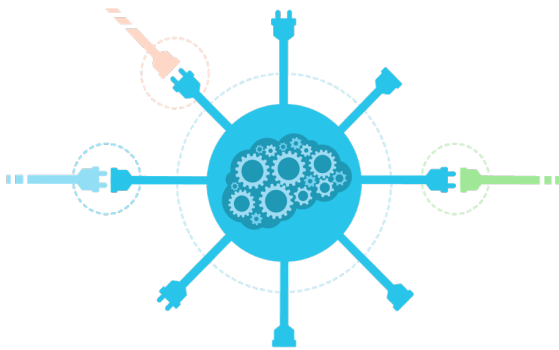
Provider Suite® gives you the power to organize all of your geospatial and business data into one centralized library, and deliver it to others easily. Plus, powerful compression technology optimizes disk space requirements and ultimately reduces your total cost of ownership.





ERDAS APOLLO

ERDAS APOLLO is a comprehensive data management, analysis, and delivery system. It enables an organization to organize and deliver massive volumes of data, and consistently delivers geospatial data faster and with less hardware than competing server-based products.



DEVELOPER FRIENDLY RESTFUL APIS ENABLE EASIER APPLICATION INTEGRATION

ERDAS APOLLO's extensible platform lets you build custom applications on top of the framework using RESTful APIs for faster development and easier integration into today's technologies. RESTful APIs use simple HTTP requests rather than requiring Java programming experience. RESTful APIs are easier to integrate into existing software packages. The exposed ERDAS APOLLO web services are better integrated into various applications by allowing only those modules needed for a customer's particular needs or workflows to be integrated.

ISO METADATA UPDATES ENABLE CAPTURE AND VALIDATION OF METADATA ACCORDING TO PROFILES

With the latest upgrades to support ISO/TS 19115-3:2016 standard as well as ingest 19115-1 and 19115-2 documents, support for profiles of that standard have been added including North American Profile and ANZLIC. This allows for the capture of any necessary metadata as well as the validation of the data according to the various profiles. This validation tool verifies all field values are in accordance to the profile definition.

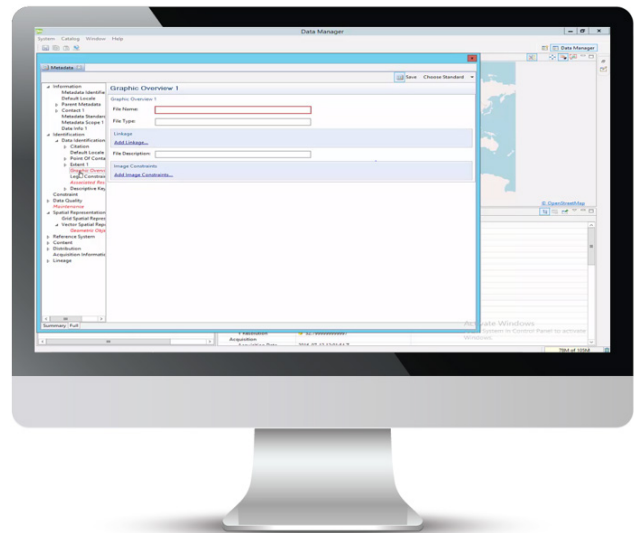
CATALOG QUERY PERFORMANCE IS SIGNIFICANTLY IMPROVED

Catalog query performance improvements include:

- General performance improvements with SQL Server (2-3 times improvement)
- Hibernate optimizations (2-7 times improvement)

SCALABLE CRAWLER TRIPLES TO QUINTUPLES PERFORMANCE TIME

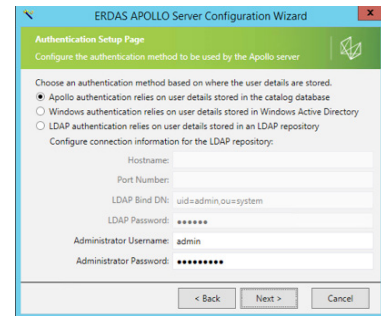
Up to now, the ERDAS APOLLO crawler has been performed in a serial manner. This latest release introduces a new "scalable crawler" to distribute jobs across available CPUs. This scaling works across cluster configurations as well. Current testing has shown 3x – 5x performance boost in time elapsed in seconds.





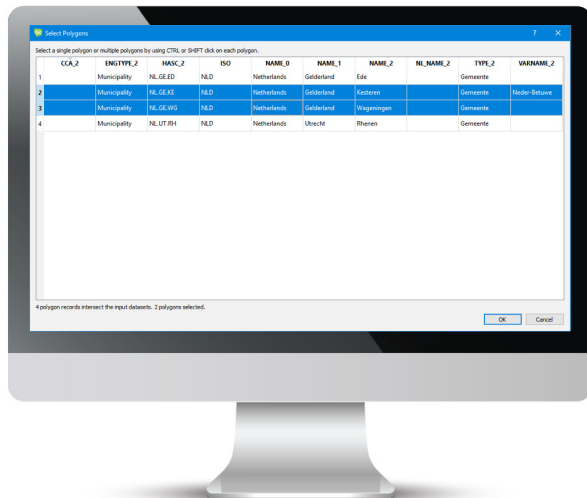
SUPPORT FOR SINGLE SIGN-ON ENABLES WINDOWS AUTHENTICATION

With support for Single Sign-On implemented in user management, administrators can configure ERDAS APOLLO server to use Integrated Windows Authentication.



GEOCOMPRESSOR

GeoCompressor is a stand-alone, high performance geospatial image and point cloud compression application designed to simplify the creation of ECW, JPEG2000, and HPC formats.

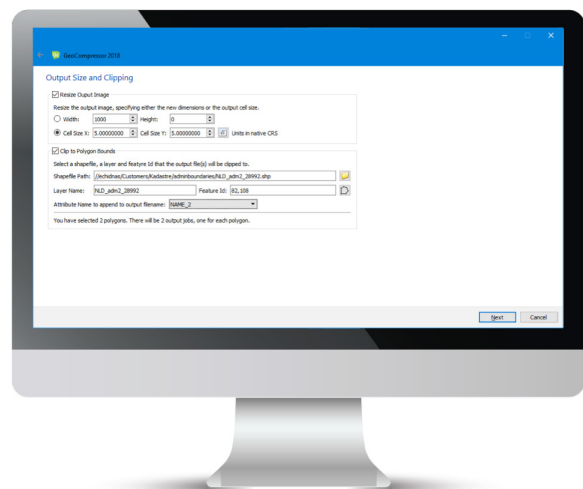


MORE SCALING/RESAMPLING FLEXIBILITY

Output scaling/resampling to new cell size or pixel width and height is now available.

EASIER TO CREATE MULTIPLE OUTPUT FILES FROM SHAPEFILE POLYGONS

A new workflow is available for creating multiple output files that are clipped to a polygon selected from a shapefile. For example, you can create an output file for each state or county, where a shapefile containing the polygons defining those states or counties is specified from either a single file or a virtual mosaic of many input files. Opacity channels are also generated from the selected polygons.

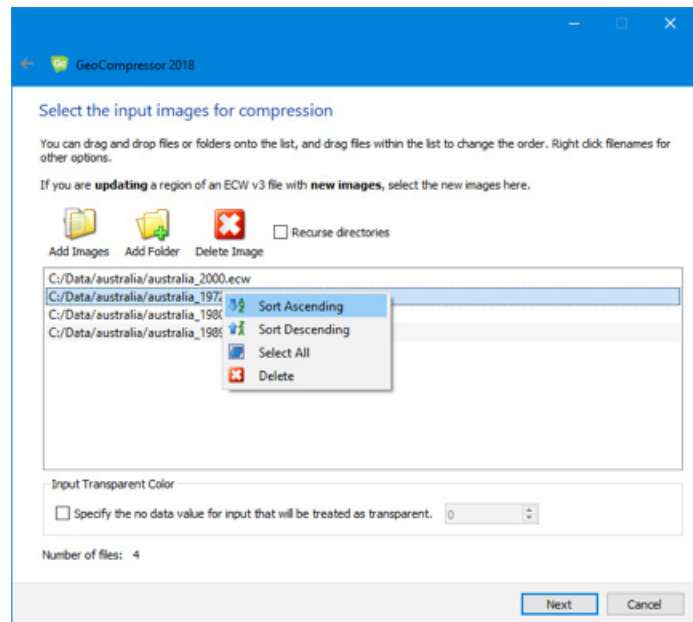




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MORE INPUT AND OUTPUT OPTIONS

Input file band mappings are easier to specify. JPEG2000 can be customized to include progression order, quality layers, SOP/EPH markers, and tile and precinct dimensions.



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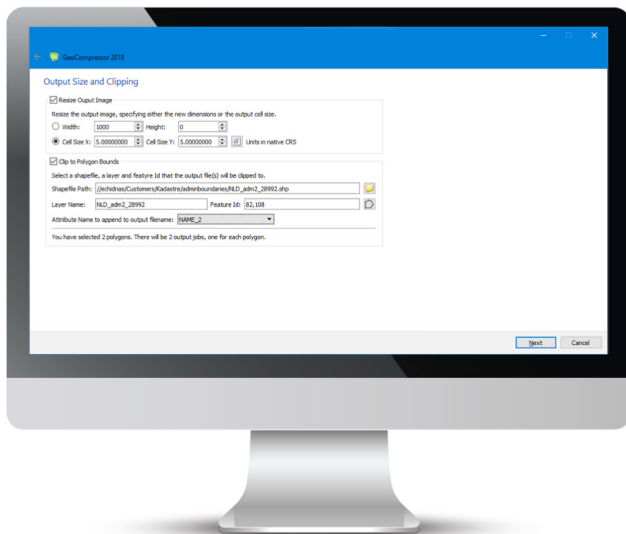
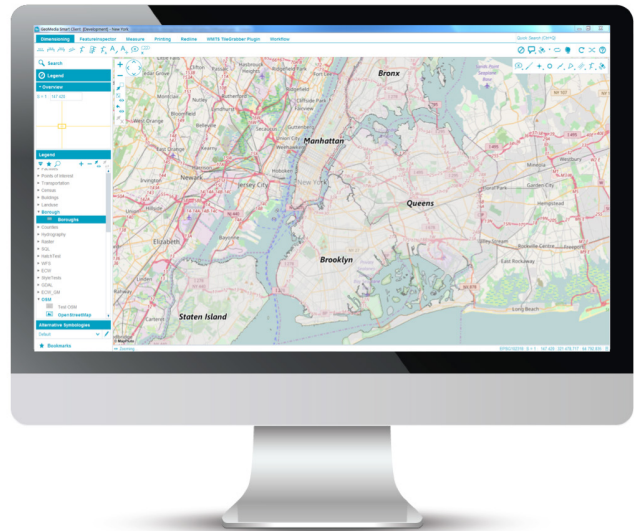
Platform Suite® enables you to deliver information through a web, mobile, or cloud solution. Build and extend customized geospatial apps and solutions with a sophisticated set of developer focused technologies.





GEOMEDIA SMART CLIENT

GeoMedia® Smart Client is a GIS workflow management system that connects tasks and dependencies across different roles in a process, and dynamically configures to reflect a users' role and specific workflow steps. End users are able to use advanced geospatial functionality via simple-to-use map-based tools, disentangling them from nonessential tasks and focusing their time on their area of expertise. Workflow Manager is a standalone product that is also a subset of GeoMedia Smart Client. Workflow Manager provides a rich toolset that lets you construct highly-focused business workflows that primarily support attributive data, but also may contain a spatial component.



OPENSTREETMAP INTEGRATION WITH GEOMEDIA SMART CLIENT PUTS YOUR WORKFLOWS IN CONTEXT

For a new project, getting the right background imagery covering the designated project extent or providing a solid base map can take hours. A growing numbers of content providers offer imagery and vector-based datasets that can be easily integrated into map compositions. Now OpenStreetMap data can be integrated into GeoMedia Smart Client applications.

WINDOWS 10 GEOLOCATION API LETS YOU EASILY INTEGRATE WITH MANY GPS DEVICES

Starting with GeoMedia Smart Client 2018, you can leverage the Microsoft Windows 10 Geolocation

API to easily integrate between your GIS and various location devices. Using the unified API, applications can access the information provided by large numbers of devices. Previously, GPS device support was accomplished by directly integrating the NMEA streams from GPS devices, but using the Geolocation API removes the need to keep up with collecting individual GPS device information.



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GPS Settings

General Settings

GPS Device: Geolocation API

Update Interval: 10 s

Mode: current

Center to Map: ☒

GPX Export: ☐

Trace: ☒

Geolocation API

Position Source: Any

Desired accuracy [m]: 500

Movement Threshold [m]: 0

Symbol scaling factor: 1

X Start GPS Close

4K MONITOR SUPPORT INTEGRATES WITH HIGH-DEFINITION TECHNOLOGY

With the cost of 4K monitors decreasing, more businesses want to integrate the increasingly popular high-definition technology. With the 2018 release, we are supporting 4K monitors to leverage the benefits provided by this technology.

WEB GIS

Hexagon Geospatial's **Web GIS** enables powerful geospatial web applications and services that securely share your organization's rich geospatial data. The Web GIS products include GeoMedia WebMap, Geospatial Portal, and Geospatial SDI.

CONSUMER LAYOUT DISPLAYS LAYERS AND ATTRIBUTES FROM VECTOR FEATURE CLASSES PUBLISHED THROUGH WFS

The Consumer layout available in Geospatial Portal and GeoMedia WebMap has been enhanced to display layers from vector feature classes published through WFS. It also allows display of vector features' attributes.





CONNECT TO HEXAGON SMART M.APPS FROM GEOMEDIA WEBMAP

WFS has been extended to return the CSV and geoJSON output formats, so a GeoMedia WebMap server can now serve data to a Smart M.App such as Mobile Alert.

IMPROVED SVG PROCESSING SIGNIFICANTLY BOOSTS PERFORMANCE OF VECTOR LAYER DISPLAY

Improved SVG capabilities in Geospatial Portal and GeoMedia WebMap boost the performance of vector layer display by up to 40%.



SIMPLIFIED PUBLISHING WORKFLOWS FOR GEOMEDIA WEBMAP WITH INSTANCES CREATED AUTOMATICALLY

Significantly improved workflow in GeoMedia WebMap reduces the service and portal publishing process to a single page in GeoMedia WebMap Publisher Administrator. Appropriate instances are created automatically in the Administration Console, with no additional steps required.

BASIC MEASUREMENT TOOLS ADDED TO PANEL IN CONSUMER LAYOUT

Make basic measurements in the Geospatial Portal Consumer layout, including displaying point coordinates, distance and area calculations, and using new tools placed in the Measurements panel.

QUICK MAP PRINTING IN THE CONSUMER LAYOUT FROM YOUR BROWSER

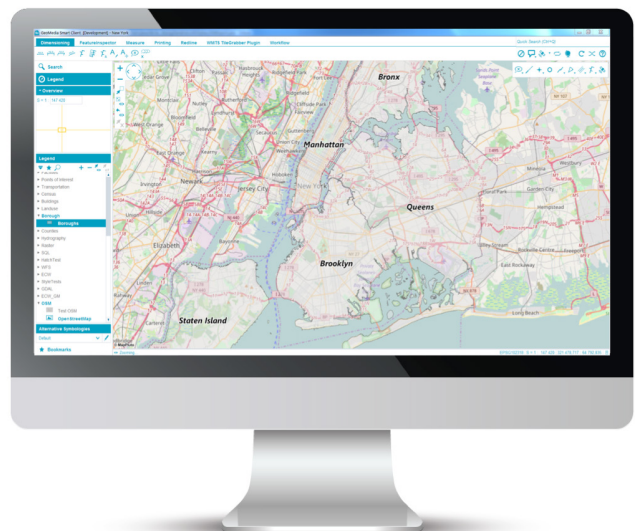
Produce attractive printouts using the standard browser print facilities in the Consumer layout.

FEATURE INFORMATION EASILY DISPLAYED IN CONSUMER LAYOUT

The new Feature Info tool in Geospatial Portal's Consumer layout displays information about features portrayed on the map. Simply tap a point on the map to retrieve available attribute data for all layers.

SPEND LESS TIME SETTING UP WEBMAP SERVICES AND PORTALS

Administrators no longer need to manually create LRF files after publishing GeoMedia GeoWorkspaces with dynamic labeling configurations. Automatic creation of LRF files and other simplified publishing enhancements now shorten the time spent setting up GeoMedia WebMap services and portals.





WFS METADATA JOINS WMS METADATA WITH EASIER EDITING

A dedicated user interface in GeoMedia WebMap and Geospatial SDI Administration Console is available to support editing of WFS metadata in the same way as for WMS metadata.

MOBILE MAPWORKS

Mobile MapWorks enables you to use your mobile tablet to update your GIS directly from the field. Downloadable as an iOS, Android™, and Windows app, field personnel can use Mobile MapWorks to view and edit feature attributes or make simple changes to feature geometry given reference data overlays.

CREATE DEVICE-RESPONSIVE APPLICATIONS WITH MOBILE MAPWORKS

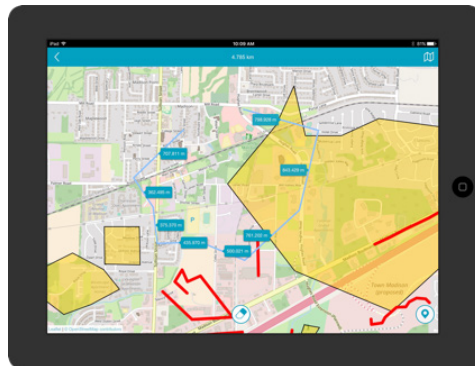
Mobile MapWorks has improved usability and efficiency for data capture and editing, navigation, and use of the GPS in all workflows for devices with smaller screen sizes. These improvements mean that our application works perfectly with high-precision devices such as the Leica Zeno 20.

OFFLINE DISCONNECTED WORKFLOWS EASIER, FASTER, AND OGC COMPLIANT

Administering offline disconnected workflows is easier and faster with Mobile MapWorks and Mobile SDK implementation of the OGC standards GeoPackage, combining both vector and raster data into a single data store.

SHARE YOUR MOBILE SDK APPLICATION ACROSS PLATFORMS

The Mobile SDK is now part of the same framework as Web GIS and M.App Foundation, providing a common API and configuration across all three product lines. Developers can easily implement functionality that spans the Mobile, WebMap, Smart M.App, and M.App Enterprise products.





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MOBILE ALERT

Mobile Alert is a field reporting and citizen engagement app for iOS, Android, and Windows devices. It is a hosted solution by Hexagon Geospatial. The client app is a free download from the respective app stores. Users can use smartphones to take pictures and categorize incidents to report to subscribing organizations, thus extending the reach of local governments and public works departments.

MOBILE ALERT COMPANION SMART M.APPS: CONFIGURE YOUR APP AND VIEW REPORTED INCIDENTS

Mobile Alert users can customize their own app and see what others are reporting by using new companion Smart M.Apps. With Mobile Alert Configurator Smart M.App, users can subscribe, configure, edit, and maintain their own Mobile Alert subscription. With Mobile Alert Viewer Smart M.App, users can display real-time, dynamic views of incidents reported by other Mobile Alert users, use interactive charts, and download reports.



Platform
Suite

POWER
PORTFOLIO™



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ABOUT US

Hexagon Geospatial helps you make sense of the dynamically changing world. We enable you to envision, experience and communicate geographic information. Our technology provides you the form to design, develop and deliver solutions that solve complex, real-world challenges. Ultimately, this is realized through our creative software products and platforms.

CUSTOMERS. Globally, a wide variety of organizations rely on our products daily including local, state and national mapping agencies, transportation departments, defense organizations, engineering and utility companies, and businesses serving agriculture and natural resource needs. Our portfolio enables these organizations to holistically understand change and make clear, reliable decisions.

TECHNOLOGY. Our priority is to deliver products, platforms and solutions that make our customers successful. Hexagon Geospatial is focused on developing technology that displays and interprets information in a personalized, meaningful way. We enable you to transform location-based content into dynamic and useable business information that creatively conveys the answers you need.

PARTNERS. As an organization, we are partner-focused, working alongside our channel to ensure we succeed together. We provide the right platforms, products, and support to our business partners so that they may successfully deliver sophisticated solutions for their customers. We recognize that we greatly extend our reach and influence by cultivating channel partner relationships both inside and outside of Hexagon (<http://www.hexagon.com>).

TEAM. As an employer, we recognize that the success of our business is the result of our highly motivated and collaborative staff. At Hexagon Geospatial, we celebrate a diverse set of people and talents, and we respect people for who they are and the wealth of knowledge they bring to the table. We retain talent by fostering individual development and ensuring frequent opportunities to learn and grow.

HEXAGON. Hexagon's solutions integrate sensors, software, domain knowledge and customer workflows into intelligent information ecosystems that deliver actionable information. They are used in a broad range of vital industries.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 18,000 employees in 50 countries and net sales of approximately 3.3bn USD. Learn more at [hexagon.com](http://www.hexagon.com) (<http://www.hexagon.com>) and follow us @HexagonAB at twitter.com/HexagonAB.

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