



HEXAGON

Release guide

Release guide

M.App X 2022

Version 16.7.0.158

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About this release

This document describes the latest enhancements, fixes, and system requirements for M.App X 2022.

For information on new features, see the “New technology” section. For information on fixes that were made for this release, see the “Issues resolved” section. For information on hardware and software requirements, see the “System requirements” section.

This document is only an overview and does not provide all of the details about the product's capabilities. See the [product description](#), the [online help](#) and other documents provided with M.App X for more information.

M.App X

M.App X provides tools to exploit imagery and create imagery-derived information products and reports deployed in an enterprise platform for system integrators. All M.App X users can create and share information across the enterprise using the rich, web-based client application.

New platforms – M.App X 2022

M.App X 2022 supports Microsoft® Windows Server 2022.

New technology – M.App X 2022

User-facing improvements and additions

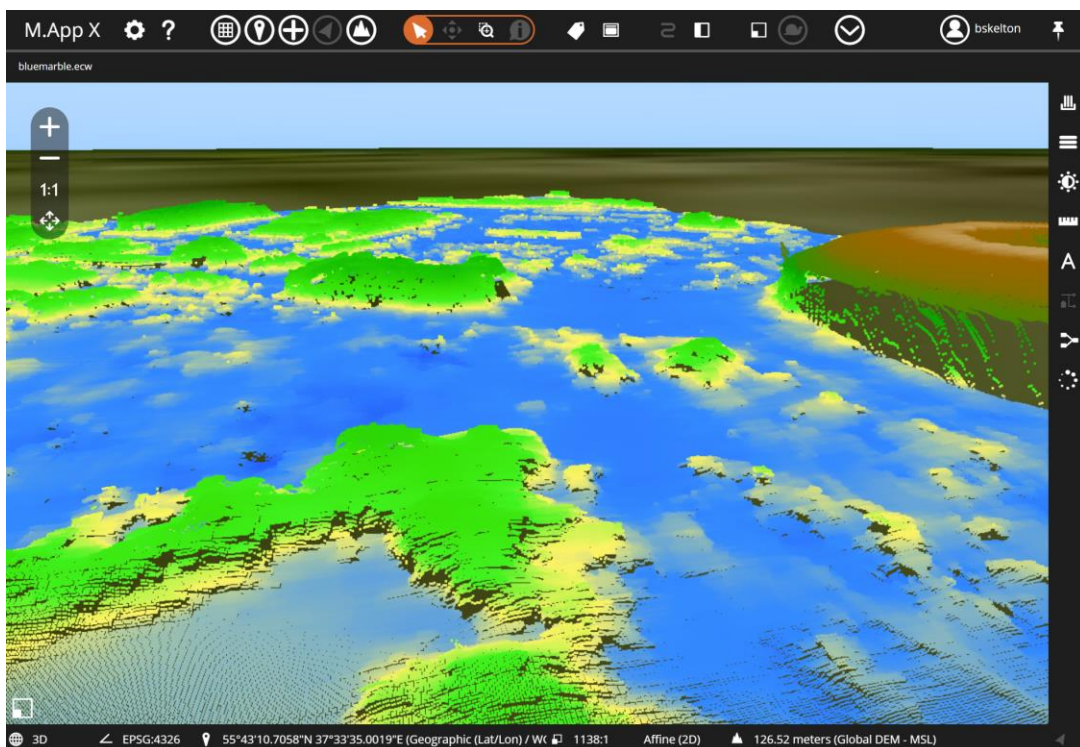
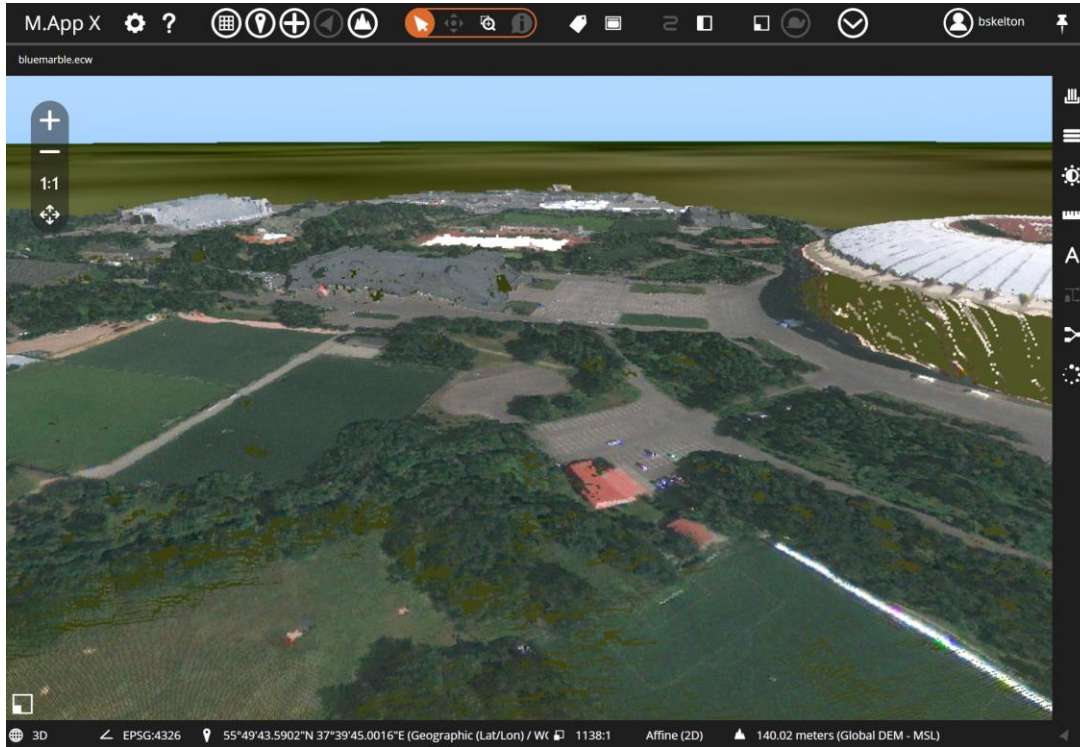
The improvements in this section describe changes that affect either the use of the client application or its performance.

Support for point clouds (requires LuciadFusion)

When a licensed copy of LuciadFusion is installed, users can leverage its capabilities to manage and visualize point clouds in M.App X. Point cloud files (i.e., LAS or LAZ) can be added to the shoebox, much as an image or a shapefile.



The file will be tiled by LuciadFusion and streamed to the M.App X client, where it can be visualized using a single color, RGB, intensity, height, or classification (depending on the dataset metadata).
Display using RGB vs. height.



Display point clouds and features without a base image

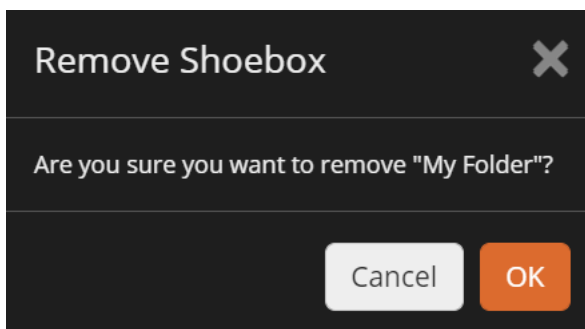
Previously, features could only be displayed on top of a base image, but with the addition of point clouds, it is much more likely that the point cloud data may be the only thing the user is looking at. The requirement for a base image was relaxed, and now it is possible to display both point clouds and features without a base image.

Transitions now work in 3D

The transition tools (swipe, fade, and flicker) now work in 3D as well as in 2D.

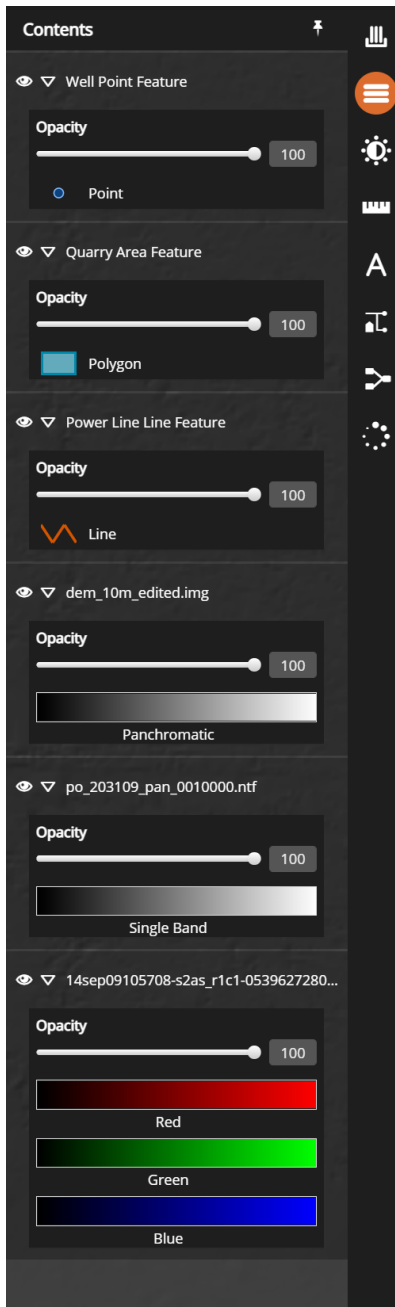
Shoebox deletion is now confirmed

Before deleting a shoebox, there is now a confirmation dialog that helps prevent accidental loss of data.



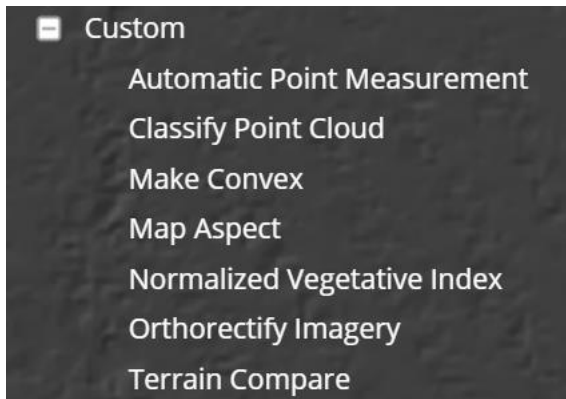
Contents panel improvements

The contents panel has been changed to show a legend for most data types, and feature and point cloud styling can now be changed using a new Adjustment button.

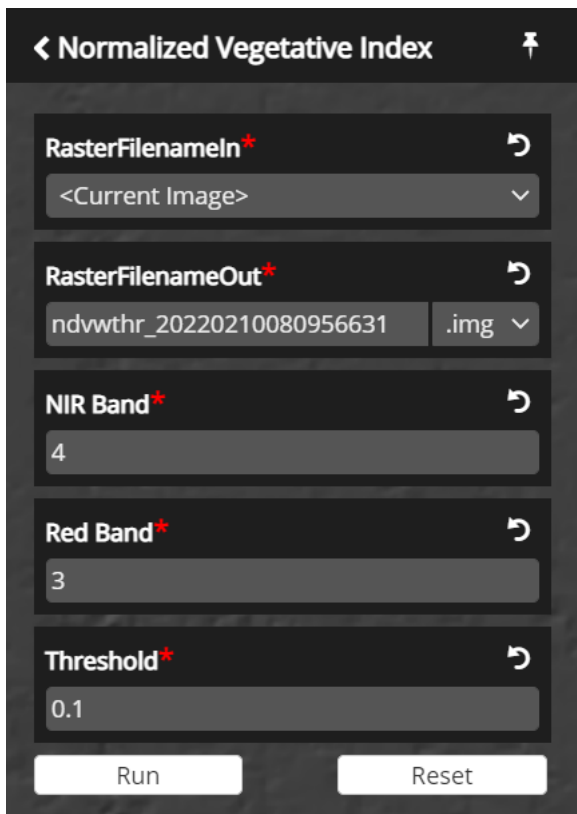


Automatically generated user interface for custom models

Spatial models can now be developed on the desktop with either ERDAS IMAGINE or GeoMedia and deployed to a M.App X installation using drag and drop into the geoprocessing section of the admin console. The custom models appear in the Geoprocessing panel.

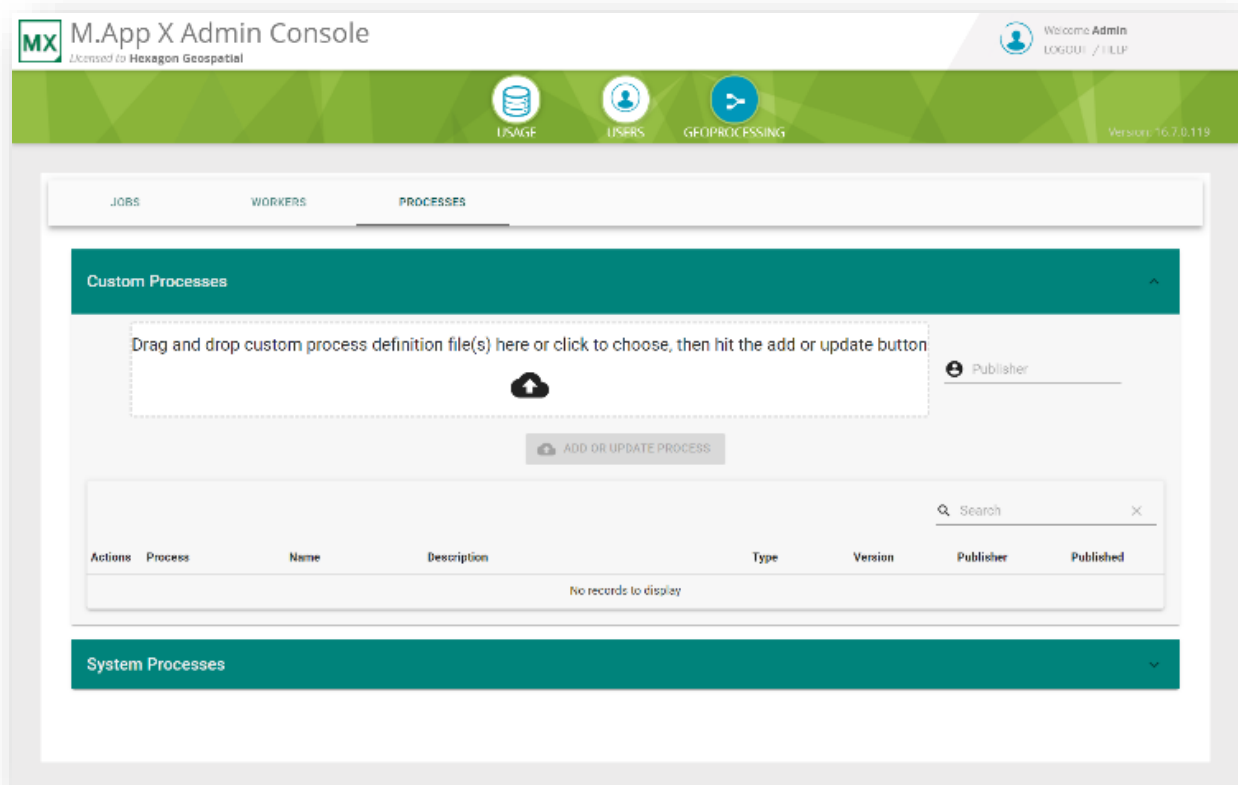


Clicking on the model will automatically create an input form from which the model can be run.



New geoprocessing management in the admin console

The M.App X administration console now has a new section for managing geoprocessing. This provides three types of functionality: managing running jobs, configuring geoprocessing workers, and managing spatial models. Running jobs for the whole system can be monitored or cancelled. Worker node information can be displayed, and some parameters can be modified. Spatial models can be added and deleted.



API improvements and additions

The following section describes changes made to the API that support integration and customization of M.App X.

- Added API allowing extension of support for new model input data type of custom geoprocessing panels.
- Added API allowing registration data in a Shoebox.
- Added API allowing addition of custom Color Ramps and Color Palettes for styling Point Cloud data.
- Added new UI widgets.
- Added API allowing custom tabs to the Add to Shoebox Dialog.

System requirements

Server

Computer processor	Xeon 2.9GHZ 4-core (or better)
Memory (RAM)	16GB (or better)
Operating system	<ul style="list-style-type: none"> • Microsoft Windows Server 2016 • Microsoft Windows Server 2019 • Microsoft Windows Server 2022
Software	<ul style="list-style-type: none"> • Internet Information Services (IIS) • JSON MIME Type Support • Java Runtime Environment Version 11 • Microsoft .NET Framework 4.7

Client

Computer processor	Any Intel or AMD x64 CPU running at 1.9GZ or greater
Graphics card	Any modern graphics card with full 32-bit support; a GPU is required to use the 3D features of the client
Network connectivity	An ethernet or WiFi connection of at least 10MBs is required for good performance (NOTE: This is not for connection to the Internet, just for connection from the client to server)
Operating system	<ul style="list-style-type: none"> • Windows 10 • Other operating systems such as MacOS and Linux are viable as the M.App X client runs entirely in the browser with no plug-ins • Windows 11 is viable
Browser	<ul style="list-style-type: none"> • Google Chrome (current versions) • Mozilla Firefox(current versions) • Other browsers such as Safari, Opera, and Microsoft Edge are viable as long as they are not mobile versions

Issues resolved – M.App X 2022 (v 16.7.0.158)

CR #	Summary	Description / How to Reproduce
WG-11665	In Light theme, the text in the feature information dialog isn't very clear.	The background has been made more opaque to improve contrast.
WG-11662	Options in the Status Bar should be consistent and should be disabled in cases where not needed.	All of the fields in the status bar are now consistent in behavior.



WG-11658	Label Name incorrect for Band selection in Adjustment panel for pseudocolor image type.	The pseudocolor band selection pulldown in the Adjustments panel now has the proper label.
WG-11636	Nudgers don't show up in Firefox browser.	This has been corrected.
WG-11635	Error handling issue when data search fails.	The error condition is now detected.
WG-11604	The initial display in the map and the number for the Width of Stroke aren't in sync.	This has been corrected.
WG-11510	Alternate data paths aren't shown if any data path isn't accessible.	If more than one data paths were configured and in those even one data path was not accessible for some reason then the other data paths which were actually accessible were also not shown in the Add dialog.
WG-11396	Auto DRA check box switches OFF automatically and cannot be switched ON for some images.	The check box now remains in the selected state.
WG-11393	Hidden layer with the legend expanded doesn't have a smooth transition while changing the order in the Contents panel.	The layers in the contents panel can now be smoothly rearranged.
WG-11390	At times, clicking on a feature with Identify tool activated would pan away from the feature.	The view no longer moves when the identify tool is used.
WG-11389	Grammar error/typo in smart bar overview tool tip.	The spelling in the tool tip has been corrected.
WG-11347	Stereo layer name in contents panel does not match the name of the shoebox entry	The layer name in the contents panel now matches the name in the Shoebox.
WG-11326	Metadata is blank for img format images.	An informational message is now displayed if no metadata is available instead of just presenting a blank screen.
WG-11324	Errors in the Console while trying to remove a layer from the Contents panel after changing the order.	The errors no longer occur when removing the layer as described.
WG-11314	Features with Polygon and LineString cannot be added to a FeatureCollection (only their multi counterparts)	These types of features are now handled correctly.
WG-11319	Installation manual is launching release guide.	The proper document is now included.
WG-11291	Typo in OLH in Configure Stereo Pair Shoebox Entry paragraph	This has been corrected.



WG-11286	M.App X UI goes blank if the map report is launched second time with a non-georeferenced image displayed in the map.	This has been corrected.
WG-11285	Need to have clear licensing messages based on the scenario rather than a generic one.	The licensing messages have been made clearer and more specific.
WG-11255	With two rasters displayed, trying to change opacity for one raster after the other results in errors in the console.	This has been corrected and errors are no longer thrown.
WG-11233	Shoebox name gets dimmed out after getting back from browsing the items contained in a NITF file.	Clicking on the filename now properly returns to the parent shoebox entry.
WG-11232	Nudgers in Firefox don't seem to work.	The nudger on number controls now work properly in Firefox.
WG-11207	Warning message shows up while clearing the text in input field of Snail Trail dialog.	Warning messages are no longer generated in this scenario.
WG-11108	Need a way to get the file names from the entries in the shoebox if the tooltip of OFF.	Tool tips which carry information such as filenames now always display regardless of the preference.
WG-11043	Altering the position of a layer would make it disappear in the Contents panel when displayed in 3D Mode.	The layer tile no longer disappears when moved in 3D.
WG-10855	Add to shoebox result list unchecks items when more results are being loaded in.	
WG-10849	Fails to show appropriate results while searching for image data in files tab when user performs same operations on multiple browsers.	The correct results are now displayed.
WG-10824	The coordinates field doesn't reset and still shows information even after map is cleared.	The coordinate field is cleared when the map is cleared.
WG-10783	Alignment of the Show Related Images dialog isn't good in Split view mode.	The Show Related Images dialog now scales appropriately for the view size.
WG-10744	Update OLH for the behavior when Mosaic is run with Polygon Areas File option.	The help now describes that after generating multiple outputs the user must discover and add them to the shoebox.
WG-10645	It could get difficult to select Text with Arrow Annotation element for editing.	The arrow rendering has been modified to avoid this problem.
WG-10187	Generate RSETs fails with TIF files stored on shared storage.	The problem in RSET creation in this scenario has been corrected.
WG-10070	Lag is observed while moving the mouse over the Terrain Profile graph.	The rendering has been changed to remove this latency.
WG-9731	Layout issue in collection bar causes collection cursor to appear on area covered by the bar itself.	The contents of the collection bar now reflow correctly when the bar is narrow as in split screen.
WG-9730	Extended Grid remains on screen after Clear View is clicked	The grid is now removed when the view is cleared.



WG-9728	Z column is not filled when collecting points in Adjust 3D	The Z value is now automatically collected and displayed.
WG-9692	The legend should remain visible even after changing symbology.	The legend is no longer temporarily removed.
WG-9610	Failed to change the attribute values for all the selected features when we select multiple features using Polygon/Rectangle tool.	This has been corrected.
WG-9479	The parent selection isn't removed after adding the selected feature class.	The checkbox on the parent folder is now appropriately cleared.
WG-9354	Map display isn't totally cleaned while performing Generate RSETs.	This has been corrected.
WG-9258	Copy Move for annotations doesn't make a copy of the annotation file	The annotation file is now duplicated when it is copied.
WG-8864	Need rephrasing in couple of dialogs.	The Elevation Sources dialog and its associated error message have been changed to make the text clearer.
WG-8644	It could be a bit difficult to change/enter value for Offset field in Contents panel.	The stereo offset slider now updates only when the slider is released. This eliminates the problem.
WG-8588	Fit to Frame after some pan and zoom while flicker option is ON, would stop flicker with the same option still shown as ON.	This has been corrected.
WG-8533	The View Menu doesn't go away even after clicking in the map view.	This has been corrected.
WG-7809	Stereo offset isn't being retained.	The offset is now retained for the image pair while it is displayed.
WG-7691	Create Slope Map output file name field resets when process finishes	The output name is not changed until a new input is given.
WG-7688	Raster Expurgation automatically resets output file name inputs after it runs	The output name is not changed until a new input is given.
WG-7687	Remove Elevation Spikes automatically resets output file name inputs after it runs	The output name is not changed until a new input is given.
WG-6774	Scroll bar in the extended grid panel does not appear in the correct place	The scrollbar is now in the proper location.
WG-1210	Process status does not stop spinning when an error has occurred.	Errors are now detected and the status stops spinning.



About Hexagon

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Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Safety, Infrastructure & Geospatial division improves the performance, efficiency and resilience of vital services. Its Safety & Infrastructure solutions enable smart and safe cities. Its Geospatial software leverages the power of location intelligence.

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