Release guide

M.App X 2023 Update 1

Version 16.8.1

16 April 2024

Contents

About this release

This document describes the latest enhancements, fixes and system requirements for M.App X 2023.

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 the product description, 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.
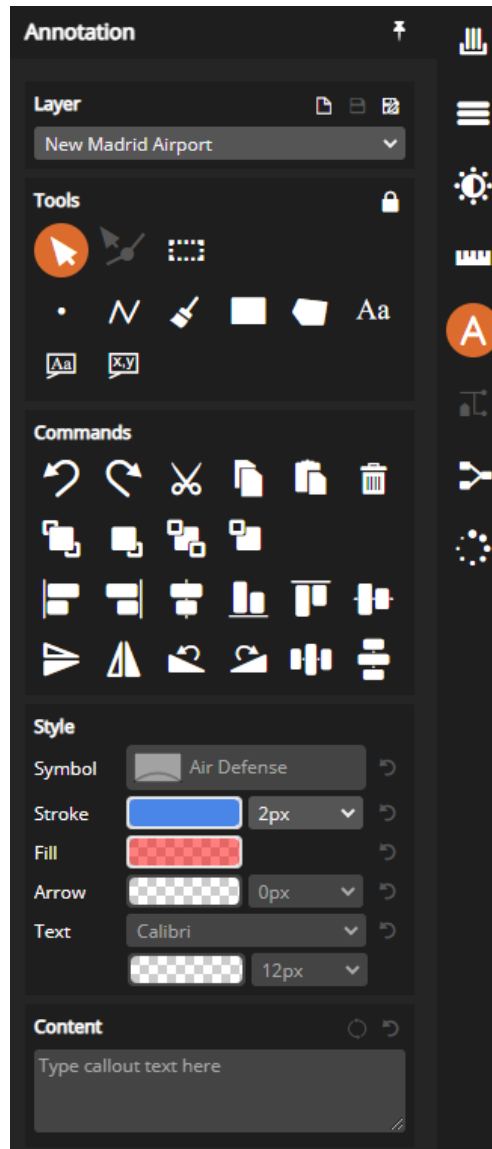
New technology: M.App X 2023 Update 1

User-facing improvements and additions

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

New Annotation Panel

The annotation system has been overhauled to provide a much more productive user experience, beginning with a reorganized annotation panel that presents the new capabilities in a single, easy-to-access set of tools.

New and improved annotation capabilities

- **Save button:** Annotations used to be automatically saved every time a new item was entered, but this caused a delay and interfered with smooth creation of annotations. The mechanism has been changed to be an automatic background save that happens on a periodic basis. However, to force a save at any time, users can click the Save button.

- **Select:** Previously, only text items could be selected and edited. Now, any annotation item can be selected by clicking on it or by dragging a selection rectangle around it. Once an item is selected it can be moved and resized using the selection grab handles.

- **Edit Vertices:** Now, once an item is selected it can be placed in vertex edit mode allowing new vertices to be added and existing ones to be moved or deleted

- **Rectangle:** This tool provides convenient means to create a rectangular polygon

- **Undo and Redo:** Now all the changes done to an open annotation layer can be undone up until the point the annotation is closed. Also, when a change is undone it goes onto the redo stack so the undo can be reversed with a single click.

- **Cut, Copy and Paste:** The familiar and fundamental tools of any editing environment are now supported – selected items can be copied to the paste buffer and then be pasted back once or multiple times. This is very useful when multiple instances of a shape or group of shapes is needed.

- **Delete:** Selected items can be deleted with a single click – but as with other tools, they can all be put back with one click of the undo button in case of an unintended deletion

- **Raise to Top, Raise, Lower to Bottom and Lower:** Change the order of overlapping annotation items

- **Align Top, Left, Center, Top, Bottom and Middle:** Quickly make neat annotations using the alignment tools

- **Flip Vertically, Horizontally and Rotate Right Left:** Change the orientation of selected annotation elements

- **Distribute Vertically, and Horizontally:** Evenly distribute a selected set of items vertically or horizontally; this makes arranging a repeating set of shapes easy with one click

System requirements

Server

Computer processor	Xeon 2.9GHZ 4-core (Or better)
Memory (RAM)	16GB (or better)
Operating system	• Microsoft Windows Server 2016 • Microsoft Windows Server 2019 • Microsoft Windows Server 2022
Software	• Internet Information Services (IIS) • JSON MIME Type Support • Java Runtime Environment Version 17 • 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 Wi-Fi 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	• Windows 10, Windows 11 • 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
Browser	• 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 2023 Update 1 (v 16.8.1.xxx)

CR	Summary	Description/how to reproduce
WG-12640	Annotation layer can be saved with just a space in the name.	It was possible to type in just a white space " " character as the annotation layer name.
WG-12601	Model with Python operator fails to recognize python installation.	Updated the installation manual to clearly describe installation steps for Python (it must be installed for all users).
WG-12577	"Images" should be replaced with "Layers" in the tooltips of the Transitions tools.	Updated tooltips for Transition tools.
WG-12546	Improve the message that pops up when a terrain is set as an elevation source for an empty map.	When trying to set an elevation source for an empty view, the pop-up message was shown. Updated the message to be more precise.
WG-12519	Camera position resolution is used to compute stereo cursor separation on initial display	On initial display of stereo image pair, the stereo cursor was shown with incorrect initial separation. Currently initial separation is based on the initial separation between stereo images (the separation is calculated during the stereo pair creation process).
WG-12511	Warning message for the shoebox entry deletion failure is not correct.	Warning message shown when removing an item from shoebox was incorrectly stating that adding to the shoebox failed.
WG-12507	Measurement units are not consistent in couple of places.	Made all labels describing area in meters squared use superscript notation now.
WG-5525	Inconsistencies with subtitle naming in Geoprocessing panels.	There were several Geoprocessing Panels that need the subheadings for user inputs and parameters changed for consistency. All labels were capitalized to read "File Name" instead of "File name" etc.
WG-12506	Height displacement tool gets enabled if the 3D model image is displayed as overlay.	Height displacement measurement tool is no longer available in 3D mode.
WG-12499	3D Point Measurements are lost if moved to a different panel.	Measurement results are not cleared when measurements panel is closed.
WG-9729	Errors are thrown in Adjust Georeferencing 3D Geoprocessing Panel when point is collected from Secondary View first	The Adjust Georeferencing 3D Geoprocessing Panel no longer throws errors when point is collected from Secondary View first.
WG-9722	Warning messages in the console if points are digitized or imported from a JSON file.	Importing points from JSON work correctly now.
WG-12518	With just a single image displayed it is impossible to go back from 3D to image display mode	With single image displayed user can choose any display mode regardless of current one.
WG-12508	Improve Annotations Panel	Improved and extended the Annotations Panel functionality.

WG-10643	Annotation changes persistence should not take time to reflect and allow further changes.	Digitizing an annotation on the map has immediate effect now.
WG-7278	Provide Undo/Redo Mechanism for Annotations	Implemented Undo/Redo support for creating and editing Annotations
WG-7277	Restyle Selected Annotation Elements	It is now possible to edit all placed Annotations
WG-7276	Move Selected Annotation Elements	Added ability to move one or multiple annotations
WG-7275	Select Annotation	Users can now select Annotations placed on the map
WG-5012	Annotation text can be edited/removed	It is now possible to edit all placed Annotations
WG-2663	Copy and Paste Graphics	Added copy, cut, and paste functionality for Annotations.
WG-2662	Clear All Annotations	User can now select and remove multiple Annotations
WG-2661	Annotation/Graphic Selection tool	It is now possible to edit all placed Annotations

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

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