



RELEASE GUIDE

M.App Enterprise 16.5.2

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ABOUT THIS RELEASE

This document describes the enhancements for M.App Enterprise. Although the information in this document is current as of the product release, see the Hexagon Geospatial Support website for the most current version.

This release includes fixes. For information on fixes that were made to M.App Enterprise for this release, see the Issues Resolved section. For information on enhancements, see the New Technology section.

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

M.APP ENTERPRISE PRODUCT

M.App Enterprise is an on-premises platform for creating geospatial apps for your organization. M.App Enterprise stores your imagery, vector and point clouds, workflows, analytics, and queries, all accessible in one place from an easy-to-use interface. With the M.App Enterprise platform, you can build and deploy your own geospatial applications (called Hexagon Smart M.Apps) to solve your organization's business problems. Hexagon Smart M.Apps are cloud-based targeted, lightweight, and dynamic apps that provide answers and present information in a visual and compelling way.

M.App Enterprise delivers a privately hosted solution for organizations that want to realize the value of a Smart M.App deployment, but stay within the confines of their enterprise network.

With M.App Enterprise, you can access Smart M.Apps anywhere within your organization's network for real-time answers.

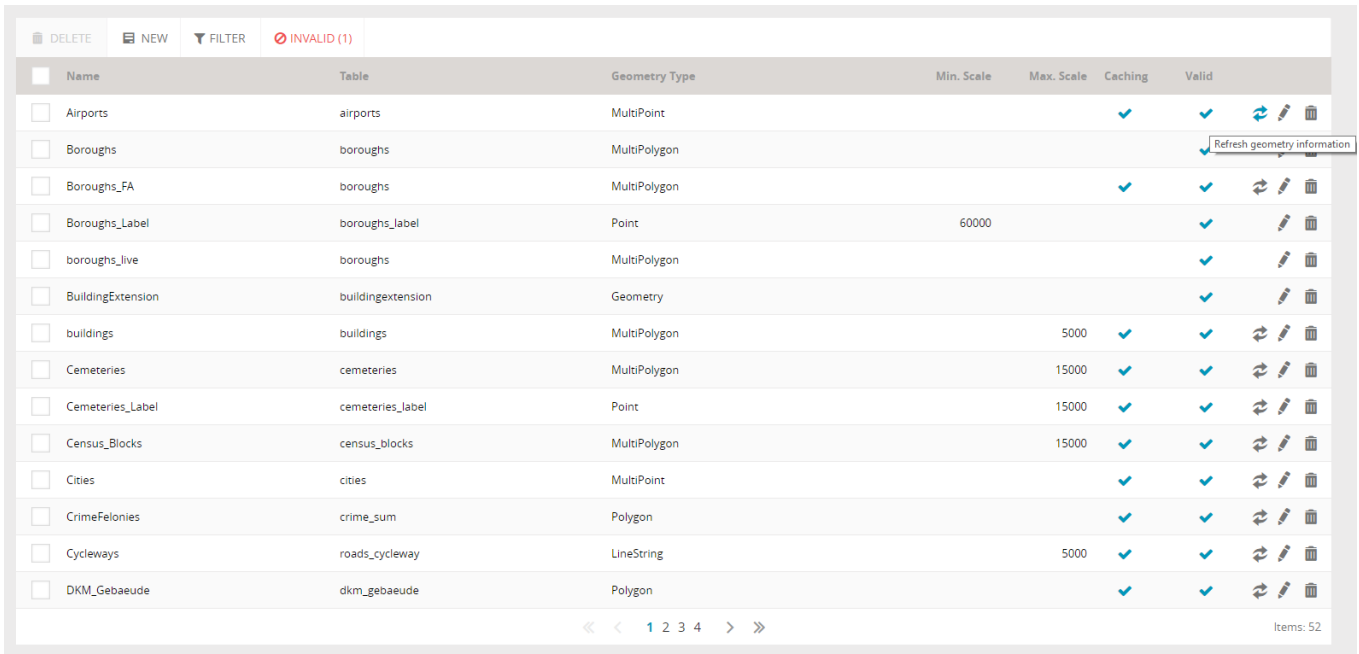


REFRESH GEOMETRY INFORMATION

With this release of M.App Enterprise you can refresh you vector data's geometry information. This is especially helpful when you know that your data have changed in their extent. This influences the caching behaviour during the cache creation of vector data.

What this new functionality does is to automatically republishes all necessary vector cache for the selected vector dataset, including Vector Sets.

You can find this new feature at the vector data list. (It's only available for cached data)

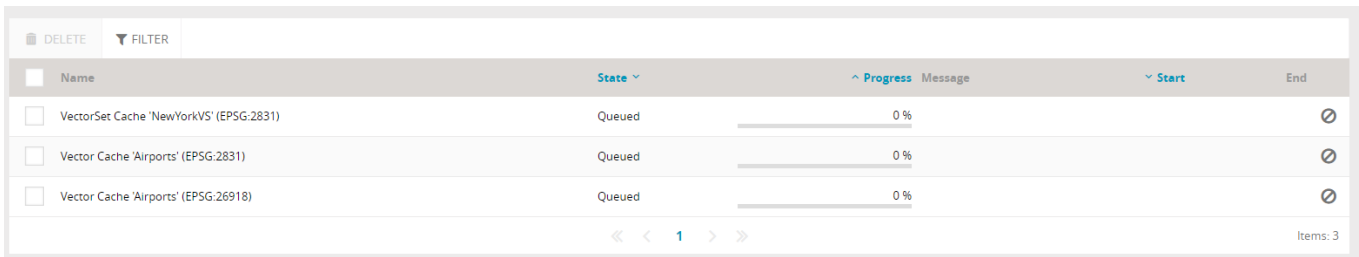


<input type="checkbox"/>	Name	Table	Geometry Type	Min. Scale	Max. Scale	Caching	Valid	
<input type="checkbox"/>	Airports	airports	MultiPoint			✓	✓	
<input type="checkbox"/>	Boroughs	boroughs	MultiPolygon				✓	Refresh geometry information
<input type="checkbox"/>	Boroughs_FA	boroughs	MultiPolygon			✓	✓	
<input type="checkbox"/>	Boroughs_Label	boroughs_label	Point	60000			✓	
<input type="checkbox"/>	boroughs_live	boroughs	MultiPolygon				✓	
<input type="checkbox"/>	BuildingExtension	buildingextension	Geometry				✓	
<input type="checkbox"/>	buildings	buildings	MultiPolygon		5000	✓	✓	
<input type="checkbox"/>	Cemeteries	cemeteries	MultiPolygon		15000	✓	✓	
<input type="checkbox"/>	Cemeteries_Label	cemeteries_label	Point		15000	✓	✓	
<input type="checkbox"/>	Census_Blocks	census_blocks	MultiPolygon		15000	✓	✓	
<input type="checkbox"/>	Cities	cities	MultiPoint			✓	✓	
<input type="checkbox"/>	CrimeFelonies	crime_sum	Polygon			✓	✓	
<input type="checkbox"/>	Cycleways	roads_cycleway	LineString		5000	✓	✓	
<input type="checkbox"/>	DKM_Gebaeude	dkm_gebaeude	Polygon			✓	✓	

After you hit the button you'll get a notification that all needed publish orders were scheduled right away.



The notification gives you the choice to switch to the cache view.



<input type="checkbox"/>	Name	State	Progress	Message	Start	End
<input type="checkbox"/>	VectorSet Cache 'NewYorkVS' (EPSG:2831)	Queued	0 %			
<input type="checkbox"/>	Vector Cache 'Airports' (EPSG:2831)	Queued	0 %			
<input type="checkbox"/>	Vector Cache 'Airports' (EPSG:26918)	Queued	0 %			

FEATURE ANALYZER UPDATE

This release includes an updated version of Feature Analyzer. Highlights are listed below.

HTML CHARTS (CUSTOMIZATION)

The new HTML Chart is very similar to a Number Display Chart in that you can create custom coded charts for your Analyzer view. The only difference between the HTML and Number display charts are that statistics for a specific field are not generated for the HTML. In addition to functional clarity, this will result in a performance boost for users that have used Number display charts in the past without using the Statistics tied to them.

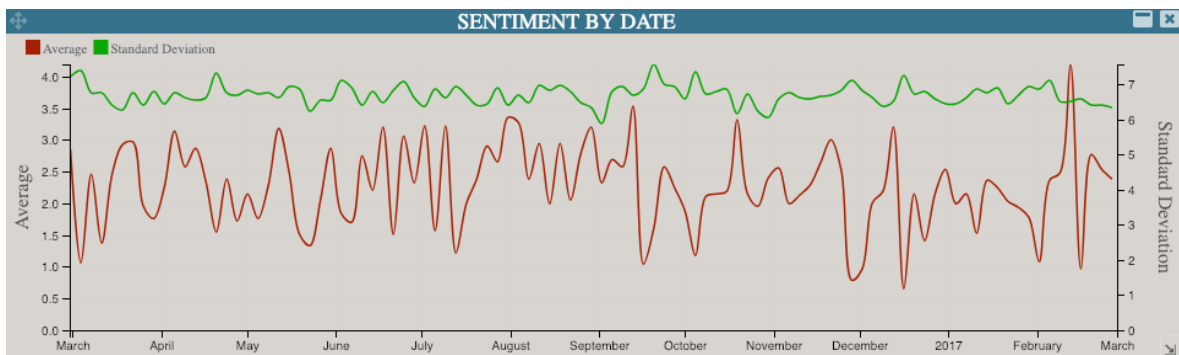
The HTML Chart can either display static data, or if used in conjunction with a functional attribute, can display dynamic data (E.g. your own custom chart).

ENHANCED MEASURES

This new option is available for all charts supporting measures. It allows users to specify Minimum, Maximum, Median, Standard Deviation and Variance as measure calculations. If any of these values, in addition to Average or Sum is used, a calculation is performed, and these calculated values are used to calculate the Y axis within the chart.

RIGHT Y AXIS (LINE, DATE, AND COMPOUND CHARTS)

This new capability is available for Line, Date charts and is most effectively used when docking a Date or Line chart into a Compound chart. In the past, if you docked two line or date charts in a single composite chart and these charts had very different Y ranges, the data on these charts would not display very well. With this option, you can now have two separate Y ranges displayed in a single chart, greatly improving the look of the chart.



SAME AS THEME COLOR OPTION (PIE AND ROW CHARTS)

The Pie and Row charts can now share the same color configuration as the Theme chart. This will make managing colors easier as a change in the Theme color will percolate down to any Pie or Row charts with the Same as Theme color option set.

STACKED DATE & TIME OF DAY CHARTS

The stacked Line and Bar chart options that were introduced in the October 2018 Release are now available for the Date and Time of Day Charts.



ISSUES RESOLVED

CR #	Summary	Description / How to Reproduce
00036588	Trouble with WMS in Feature Analyzer	I am trying to display labels in Feature Analyzer using a WMS based service. I created a styleset with a text symbolizer then applied it to a vector dataset created from the attached polygon layer. I can add it to Feature Analyzer, but the labels never display.
00036478	Vector Set Publish Results	I'm getting some questionable results when publishing/caching a vector set in Mapp Enterprise that contains polygons with arc geometry. As you can see in the screenshots I've attached the results of caching arcs don't look very good which becomes very apparent when I overlay a WMS service of the same polygons.
00036808	Dashboard Vectorset Bounding Box Issue	When creating a new cached vector, the bounding box in set in the database (minx,maxx,miny,mxy) to envelop the current data. When creating the vector set to use in the dashboard and publishing it, the setconfiguration column is also populated using the bounding box from vector (current data). In the dashboard, at first everything looks fine, but if additional data is being added to the features that the dashboard present, if the new data is outside the initial bounding box from when the vector was created, the new data will not be positioned correctly, it will be positioned to the left of Africa, at 0,0 3857 coordinates.
00036154	View Stats and change preview picture not working	When accessing the overview of all M.Apps in the Studio I can't access the "Edit" to change the preview picture. Nothing happens when clicking this button. It's working for the other apps, like Browser. Clicking the "View Stats" Button just links to an empty page without content like for my browser apps.
00037034	Unable to add Custom EPSG in PostGIS database back end.	I have this customer trying to create a custom CRS and we keep hitting the error. Npgsql.PostgresException: 22001: value too long for type character varying (1024). this happen on PostGIS. Unfortunately, we need this fixed, project needs have this to complete.
	CRS list for WMS in M. App Enterprise Studio needs to be dependant from layer	WMS can have different CRS available. Therefore the CRS list must be dependant from the selected layer.
	Session parameters will not be replaced in the actions URL	If a user defines a URL for an Action Set which includes session parameters {SESSION.*****}, then they will not be replaced.
	Show title instead of name for mobile apps	
	New line after GE_SPLITPOLYLINE starts with a doubled first vertex	After I split the line, notice the first 2 vertices in the new geometry are exactly the same. As this is not really a well-formed geometry I will then get in troubles trying to perform spatial operations on this element.

	WMTS parsing fails when there is no title	In M.App Studio you get an error when you try to add a WMTS as a Geoservice that has no title element in it's capabilities. (If the title is not set that's no problem but missing the whole title element is.)
	Add Desktop AppId to the workflow request URL	Desktop App's Id is now added to the request URL when opening the workflow.
	Support polygons with Z coordinates in area import (Mobile)	Npgsql.PostgresException: 22023: Geometry has Z dimension, but column does not
	Can't update feature in mobile app with numeric primary key instead of GUID (PostgreSQL)	
	Rules of thematic legend items are not displayed in print legend	In the print legend does not show rules of thematic entries only the thematic entry itself.
	browseInNativeBrowser adds redundant URL location when running workflow	<p>The browseInNativeBrowser function used for:</p> <ol style="list-style-type: none"> 1) FormField type="hyperlink" 2) FormAction with script SCRIPT[IG.browseInNativeBrowser({FORM.URL})] <p>Adds redundant server name before the actual URL</p>



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.

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 more than 16,000 employees in 46 countries and net sales of approximately 3.4bn USD. Learn more at hexagon.com and follow us @HexagonAB.

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