

# 7.5.1 Release Notes

## What's New

- System and Fleet Management enhancements
- Improvements to Structures Inspector for Tunnel management
- Maintenance Manager bug fixes
- Updates to supported versions for several third party application

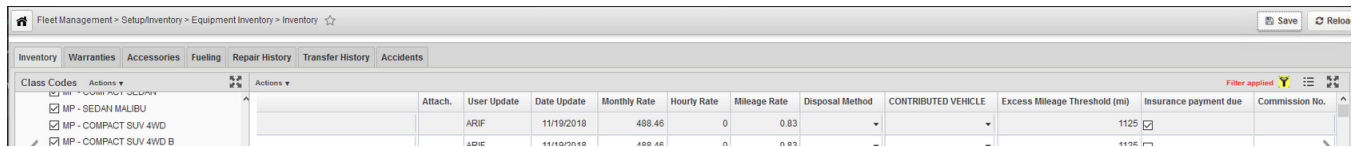
## New Features and Enhancements

### System

Network Transaction now supports **Effective Transaction Date**. Any events on a corresponding route with an event date that is after the Effective Transaction Date will not be updated.

A new window, **LRS Buffer Event Date Logic**, allows users to enter SQL expressions to calculate the event date.

### Fleet Management



Class Codes	Actions	Attach.	User Update	Date Update	Monthly Rate	Hourly Rate	Mileage Rate	Disposal Method	CONTRIBUTED VEHICLE	Excess Mileage Threshold (mi)	Insurance payment due	Commission No.
MP - SEDAN MALIBU			ARIF	11/19/2018	488.46	0	0.83			1125	<input checked="" type="checkbox"/>	
MP - COMPACT SUV 4WD												
MP - COMPACT SUV 4WD B												

An **Insurance Payment Due** column has been added to the Inventory list containing a checkbox to indicate yes or no.

### Structures Inspector

The Structures Inspector web application for managing tunnels has been enhanced to support the ability to view and add Inspection Histories for a tunnel as part of the inventory and the ability to completely add a tunnel along with its attributes from the user interface. The added tunnel capabilities includes specifying the identifying attributes according to the SNTI (Specifications for the National Tunnel Inventory), adding the portals and panels along with a display order for them, and adding elements to the panels and portals.

Structures Inspector > Structures > Tunnels > Inventory ☆ Save Reload

Tunnel General Information Panels/Portals Elements Past Inspections Review Changes

Panels Actions ▾

* Panel Name	Panel Length	* Display Order	Date Update	User Update
1	2301	2	5/21/2020	OLGA
2	2101	3	5/21/2020	OLGA
3	2300	4	5/21/2020	OLGA
4	2101	5	5/21/2020	OLGA
5	2301	6	5/21/2020	OLGA

<< 3 of 5 total rows >>

Portals Actions ▾

* Portal Name	Portal Length	* Display Order	Date Update	User Update
North	2000	1	5/21/2020	OLGA
South	2000	7	5/21/2020	OLGA

<< 2 of 2 total rows >>

Structures Inspector > Structures > Tunnels > Inventory ☆ Save Reload

Tunnel General Information Panels/Portals Elements Past Inspections Review Changes

Past Inspections Actions ▾

* Inspection Date	* Inspection Type	Attachment	Inspection Agency Assigned	Team Leader Assigned
5/1/2018	Routine		Stantec, Engineering	
4/29/2016	Routine		Stantec, Engineering	
5/1/2014	Routine		Stantec, Engineering	
4/30/2012	Routine		Stantec, Engineering	
1/31/2011	Damage		Gannett Fleming	
5/1/2010	Routine		Gannett Fleming	

<< 1 of 6 total rows >>

## Other Improvements and Bug Fixes

- Fixed: Issue in Jasper Server has been resolved and the dashboard now loads correctly and consistently.
- Fixed: Issue in Maintenance Manager has been resolved and the **Show** feature on maps in the Sections Inventory window now functions correctly.
- Fixed: Issue in Maintenance Manager has been resolved and reporting summary work order data and calling a system job now populates Work Order summary tables as intended.
- Fixed: Issue in Maintenance Manager has been resolved and the Material inventory window the lower Inflows pane of the Transactions tab now displays correctly for selected material stockbins.

## Known Issues, Limitations, and Restrictions

## Updates

- In Structures Inspector, when the Tunnel inventory screen is displayed, **Revert Edits** is briefly shown and then hidden along with **Edit Tunnel**.
- In Structures Inspector, when **Revert Edits** is selected in Tunnel inventory screen, users must currently reload the page for their edits to disappear.

## Existing Known Issues

- Structure Inspector inspections for Tunnels can currently be edited after being submitted.
- For windows devices, text boxes in the Structures Inspector mobile app, such as the General Notes field in the general inspection form or the Comments field in access needs form, display the input cursor in the middle of the text box, instead of at the top of the text box.
- The Structures Inspector mobile app may crash when more than 10 photos are selected from the device album to be attached to an inspection record
- Work Manager App users on Android devices with memory of less than 2GB may receive an Out of Memory Exception. Please close and reopen the app daily to avoid this issue.
- When a user adds multiple photos to an inspections from a device with a full camera roll on an Android device the Structures Inspector mobile app may crash.
- The Structures Inspector mobile app lists inspections in QC and QA for download but if those inspections are edited, the sync process will halt and users must click **Delete on device and continue** to sync their other inspections.

When downloading for the first time, please check the status of inspections and do not download inspections with a QC or QA status. To review

the status of inspections that have already been downloaded, click  and select **Download Inspections**.

- The Structures Inspector mobile app Condition State comment text box covers the title.
- The Structures Inspector mobile app lists the date updated as the date it was last modified from the web application even if it has been modified more recently in the mobile app.
- The supplied CORS filter for Tomcat will not work on Tomcat version 8.5.32 and above. Customers need to review the use of the CORS filter and update web.xml as needed. Additional information can be found at <https://tomcat.apache.org/tomcat-8.5-doc/config/filter.html>
- The discovery date is absent on the flag screen in Structures Inspector. Currently, the default date is the current date for flags created in the web app.
- The Structures Inspector mobile app screen shifts when closing a pop-up window.
- Flags can now be created in the Structures Inspector mobile app but must still be submitted to QC using the web application. Additionally, Flags Superseding and Discovery Date are not yet available in the app.
- Flags cannot be set to supersede each other in the Structures Inspector mobile app.
- As of Chrome 71, browser pop-ups may be blocked which will negatively affect system operations. To address this in Chrome go to Settings > Advanced > Content Settings > Pop ups and redirects and then add the URL for the application.
- The new GIS Explorer like all web mapping applications requires datasets in the geographic coordinate system (EPSG:4326), so customer schemas with data stored in a different coordinate system would need to be transformed in order for map layers to be created from the dataset. See the section on re-projecting geometries in the [Implementation Guide](#)
- Inserting a location or inventory item from a map is not functional when using Firefox as your web browser. To work around this limitation, use the other supported web browsers: IE 11, Chrome or Safari
- When you select to print a map as an image (png file) using Firefox as your web browser, the file is downloaded as map.png.pdf. You would have to manually edit out the '.pdf' extension from the file name, after the file has been downloaded, to be able to open/use the file
- When you define a map print template of size 34x44 or larger, an error is returned since the size of the generated map image always times before a PDF for printing is generated
- While working on the GIS Interface and performing tasks that does not generate a request to the server (such as styling a map), your user session may expire as a result. The configured session expiration warnings will be displayed when this occurs or your session may timeout and a session expiration notification displayed, if a warning is not configured
- Map filter value does not get pre-populated in the Jasper report print template, even though the parameter is specified for display in the template
- Map filter value cannot be defined or edited for a map with a specified area of interest. To work around the definition limitation, the map filter should be defined before the AOI is set
- A map's layer style settings become null and un-editable, when an applied filter is partially applicable or not applicable to the defined styling attribute values for the map
- On a map bound to a data window, some items when selected on the map aren't highlighted in the data window because they aren't present there (In a data window, items can be Access Regulated), but on the map all inventory items are displayed
- The loading and display of maps and associated styles in IE 11 is not as performant as Chrome, Firefox and Safari
- In the Roads & Highways interface, routes with curves are not handled properly by the ESRI FDGB API. A workaround is to have the agency densify the routes to turn the curves into line strings
- The HTML5 based copy/paste functionality has limitations on the number of rows that can be copied to a browser's clipboard
  - IE 11 - 4000 rows
  - Edge - 4000 rows
  - Chrome - 400 rows
  - Firefox - 1000 rows
  - IE or Edge on a Surface Tablet - 15 rows
- When you select to copy rows from a data window, data from hidden columns on the window are also copied to the clipboard
- The spinner indicating that a layer is loading in the GIS Explorer, continues to spin after selecting to remove a previous loading layer by using either the new map or remove layer option
- When zoomed in at the 0.6km/0.4m level before selecting to print a map, the basemap is not rendered on the resulting printed map
- Hebrew and other languages with special characters are not rendered properly on the properties panel of GIS Explorer
- GIS Explorer does not display the contents of the screen for a right to left language setting
- The owner of a GIS catalog folder no longer has access to the catalog, when the folder is shared by a GIS admin with administrative units that the owner of the folder does not belong to
- A map built from an image service is not rendered in the printed document (PDF or PNG) when select to print the map
- An image layer is not displayed on the map when change the basemap from the 'None' option to any other basemap option
- A map comprised of layers from multiple sources including an image service, does not display the layers in the correct z-order when the layers are re-ordered

- For some monitor resolutions, opening the messages dialog while the GIS Explorer window is open results in the messages dialog to be partially hidden
- In FDC, when enter an incorrect password twice and then enter the correct password afterwards, a message indicating an incorrect reCAPTCHA answer is displayed
- When the same editable layer is added to GIS Explorer so there are more than one active, the features on the layer cannot be dragged for an edit
- The undo/redo of edits retains the actions performed even the associated layer has been removed
- When add a new editable layer to a map with in-progress edits, the undo and redo options are temporarily disabled. Performing an edit re-enables undo/redo and previous edits can be undone or redone
- When a user enters an incorrect username or password in the Work Manager mobile app, an incorrect message 'Unable to connect to server' is displayed
- In Microsoft Edge, some admin units in the Admin Units drop-down on the inspection team's creation dialog, appear as actionable links
- Setting some columns as fixed in a data window is not functional in IE 11
- Setting of columns as fixed in a data window is not supported in right to left language displays, such as for Hebrew or Arabic, i.e. only the left most columns can be fixed
- GIS Explorer does not display a basemap nor the basemap selection dialog, when using Microsoft Edge web browser. However, basemaps function as expected with IE 11, Chrome and Firefox web browsers
- There is an issue in ESRI ArcGIS Enterprise 10.6.1, that prevents the publishing of services for Oracle tables or views with a geometry column owner of MDSYS. When the ESRI issue is addressed, we will test and ensure that the functionality has been restored

## Supported Third Party Applications and Versions

	Platform	Version 7.5.1	Notes
<b>Application Server</b>	Apache Tomcat	8.5, 9	
<b>Java</b>	Oracle Java SE	11	
	*Zulu JDK Oracle JDK OpenJDK	1.11	Zulu JDK is the preferred JDK.
<b>Web Browsers</b>	Internet Explorer	11	
	Edge	81 <sup>1</sup>	As of 7.5.1, 81.0.416 and 44.18362 are the stable versions
	Chrome	80 or newer <sup>2</sup>	81 is current (5/5/2020)
	Firefox	ESR 68.7 <sup>3</sup>	
	Mobile Safari	iOS 13.X	Safari is coupled with iOS, so the version of Safari is tied to the OS versions supported.
<b>Database Servers</b>	Oracle Enterprise Edition	12c 18c 19c	12.2
	PostgreSQL	9.5 9.6	<b>Note:</b> ESRI ArcGIS Enterprise with 10.6 includes support for 9.6 (in addition to 9.4.x and 9.5.x) <a href="http://desktop.arcgis.com/en/system-requirements/latest/database-requirements-postgresql.htm">http://desktop.arcgis.com/en/system-requirements/latest/database-requirements-postgresql.htm</a>
<b>Server Operating Systems</b>	MS Windows Server	2008 R2 64-bit or newer	
	Red Hat Enterprise Linux	5, 6, 7	
<b>Reporting</b>	Jaspersoft, iReport	4.X, 6.X	Jaspersoft does not support Java 11 until version 7.5 and must run independently on 8.
<b>Mobile Apps</b>	iOS	11.X, 12.X, 13.X	<b>Note:</b> Structures Inspector and Work Manager apps support tablets only and do not support smart phones. The Fleet Maintenance Manager and Materials Manager apps support both tablets and smart phones.

	Android	6.X 7.X, 8.X, 9.X, 10.X	The Fleet Maintenance Manager and Materials Manager mobile apps are not supported on Android. Android devices do not usually upgrade their OS. 6.X is from 10/2015 to 10/2016.
	Windows 10	Fall Creators Update, build 16299 or later	<b>Note:</b> The Fleet Maintenance Manager and Materials Manager mobile apps are not supported on Windows 10
<b>LRS Interface</b>	ESRI ArcGIS Enterprise	10.5.1, 10.6, 10.7	For the Roads & Highways Interface
<b>GIS</b>	ESRI ArcGIS Enterprise	10.5.1, 10.6	For integrated ArcGIS Enterprise
<b>Application Deployment</b>	Docker	18, 19	