

7.3 Release Notes

Overview

Version 7.3 is an accumulation of the several smaller releases (7.2.1, 7.2.3, 7.2.4, 7.2.5, 7.2.6) delivered every seven weeks and the delta of updates and features since the 7.2.6 release. This release includes several updates to the Work Manager mobile app, enhancements to Maintenance Manager, Structures Inspector, Structures Analyst, as well as mapping improvements to GIS Explorer and the introduction of JasperReports Server. JasperReports Server updates reporting functionality to include interactive charts, ad-hoc reporting, and the ability for reports execution on a separate server to improve performance.

Supported Third Party Applications and Versions

[Supported Platforms and Third Party Applications for Version 7.3](#)

New Features and Enhancements

Work Manager

- Added ability to specify an Equipment Operator on a work order
- Create a work order using the current location of the app
- Option to provide feedback within the app
- Option to duplicate an existing work order as a short cut to creating a new work order
- Added unit of measure for planned amount
- Improvements to the progress bar for download maps
- Enable work order editing
- Smart sync process – reduced sync time by 80%
- Active directory integration
- Type ahead activity search when creating work orders
- Delta enabled syncing for faster time to sync
- Persisted user id at login
- Added ability to hide cost day cards per customer
- Unit of measure displayed for all quantity entries
- Updated the work date field to be an optional entry on location day cards
- Add location to a day card by selecting an asset on the map
- Option on map to locate and show a user's current location
- Create and edit work orders
- View current location on map

Maintenance Manager

- Refreshed user interface for creating a work order from the Daily Work Report and Plan Matrix windows
- Refreshed user interface and experience of the work order history window
- Multi-activity job field configurable in mobile app
- Added a new work order history window
- Improved the work order creation wizard to simplify the user experience

Structures Inspector

- New Inspection Teams screen - allows an inspection coordinator to create a team of inspectors that can be assigned bridge structures for inspection
- Enhanced Inspection Manager screen - allows an inspection coordinator to assign new inspection candidates to an inspection team

Structures Analyst

- In addition to optimization analysis on bridge NBI components, bridge analysis has been enhanced to support optimization analysis of AASHTO elements (or an aggregation of elements) by applying probabilistic deterioration models to a distribution of the four condition states

GIS Explorer

- Added security settings to the catalog for better content management
- Support for creating and displaying a layer from an Image Service
- New 'Between' operand for date fields when filtering
- Ability to update (save) an existing map and its layers after changes have been made to the styling or other component

Jasper Reports

- Added support for Jasper server v6.4 as a future replacement for the embedded Jasper reports functionality
 - Note: Embedded Jasper reports functionality will remain functional for the next couple of application versions to allow for full migration of existing reports to Jasper server

Dropped/Replaced Features

- This version drops support for Esri Roads & Highways version 10.4.1 and below
- This version drops support for Tomcat 7
- This version drops support for Android 4.4 (KitKat)
- This version drops support for iOS 9

Other Improvements and Bug Fixes

- Added: Support for ESRI Roads & Highways V10.6
- Added: Support for PostgreSQL as a database server OS option for deploying the application
- Added: Ability to edit point and linear features on a map bound to a data window
- Added: Ability to define up to four fixed columns (these will remain visible, when scroll horizontally) in a data window display
- Added: Search box with type ahead for tree list items in Reports filter
- Added: Shortlist for bridge inspections now shows inspections assigned to a user's team(s)
- Added: Support for ESRI Roads & Highways V10.5.1
- Added: High Contrast mode display for color blind users, this applies a grey highlight over white text on grid views
- Updated: The calendar widget was updated to simplify its usability. Simply picking a date on the widget, closes the widget and updates the underlying field with the selection
- Updated: The 'Save Data' and 'Retrieve Data' buttons in the application were renamed to 'Save' and 'Reload' respectively
- Updated: The menu option 'Set bookmark location' on a grid or tree view of a window was renamed to 'Tag record'
- Fixed: Issue in GIS Explorer, where an error is returned when attempt to export a layer as a shape file
- Fixed: Issue in GIS Explorer with IE 11, where an administrator could not edit a folder in the catalog
- Fixed: Issue in signs inventory, where placing the cursor in the MP field for a row, and then clicking away, causes the field data to appear as edited and the save button enabled
- Fixed: Issue in fleet management in the equipment inquiry window, where the field 'Select Column to Retrieve by' did not have a default value
- Fixed: Issue in roadway and facilities, in the in-house projects window, where the 'Update Child Projects' action did not propagate changes made in the in-house projects pane
- Fixed: Issue in roadway, where the linear diagram displayed for a selected route, could be edited for an asset type/event
- Fixed: Issue in signal & its management, where the update time for an employee day is displayed as zeros, when the day card is approved
- Fixed: Issue in signal & its management, where the update time for a work order created for a work/te request, is displayed as zeros, when the work order is activated
- Fixed: Issue on a map bound to a data window, where a new insert-like record of an existing record, is not shown on the map until the application cache is cleared
- Fixed: Issue on a map bound to a data window, where a row selection on the data window does not zoom-in the map to the feature in the selected row
- Fixed: Issue in GIS Explorer, where an edit of a feature service URL does not trigger a revalidation of the edited URL before save
- Fixed: Issue in GIS Explorer, where the map legend overflows at the top of the screen and no option scroll the content
- Fixed: Issue in GIS Explorer, where the AND operand for filtering map data, is not functional when used for 'ANDing' the same field
- Fixed: Issue in reports, for standard reports where the title of a report are displayed twice in the report
- Fixed: General in bridge inspection, where fields with a color value could not be cleared out to have a blank value
- Fixed: Issue in materials management, where the system defaults to the user's currently logged in management unit rather than their previously selected management unit
- Fixed: Issue in fleet management, where a warranty wasn't created after a vehicle acquisition
- Fixed: Issue in fleet management, where odometer history was being updated for non odometer related updates
- Fixed: Issue in maintenance management, where it was possible to create day cards for a completed work order
- Fixed: Issue in maintenance management in the junction inventory window, where switching between the junction inventory tab and the junction condition tab causes cursor position to be on the first record rather than a previously selected record
- Fixed: Intermittent issue in GIS Explorer, where the properties panel is not displayed upon selection of a feature on the map
- Fixed: Issue in GIS Explorer, where an attempt to export a layer with a large set of features, resulted in an error without completing the export
- Fixed: Issue in FDC, where a defined sort order is reset when an in-progress download is cancelled mid stream
- Fixed: General issue with dashboards, where dashboards were not being rendered or refreshed if pre-existing
- Fixed: General issue when attempt to resize an application pop-up dialog, where the dialog resizing doesn't follow the actions of the user
- Fixed: General issue where tool tips were neither displayed for column headers in a window nor for context menu items
- Fixed: General issue in a right to left display application (e.g Hebrew language display), where window columns could not be dragged to re-order them
- Fixed: General issue where the system did not prompt for a restart when the application language is changed
- Fixed: Issue in the work manager mobile app, where the cursor is placed at the beginning of a field when attempt to edit the contents of a field
- Fixed: Issue in fleet and equipment manager, where the equipment inquiry window was defaulting to blank rather than equipment name
- Fixed: Issue in fleet and equipment manager, where an erroneous check for stock levels is performed when completing a multi-vehicle repair order
- Fixed: Issue in maintenance management, where successive parent projects could not be specified and propagated to child admin units, when creating an in-house project
- Fixed: Issue in maintenance management, where asset types or activities defined for a contractor in the setup window are not retained, when select to edit a selection
- Fixed: Intermittent issue in maintenance management, where the prior contents of the work order comments field is overwritten when the user scrolls the screen
- Fixed: Issue in facilities management, where sites or buildings or facilities activities defined for a contractor in the setup window are not retained, when select to edit a selection
- Fixed: Issue in GIS Explorer, where a user's AOI definition, crop setting and global filter definition are not retained across multiple sessions for the user
- Fixed: General issue where the formatting on reports is not retained when a report is emailed

- Fixed: General issue for maps bound to a data window, where the feature's gis information on the map is not updated to reflect updates made on the data window
- Fixed: Issue in materials management with Firefox, where an error is displayed when attempt to issue a material to a vehicle or a crew
- Fixed: Issue in fleet management, where an error is displayed when attempt to complete a repair order with a costs daycard
- Fixed: Issue in pavement management for Hebrew language, where some headers in the survey graph and optimization analysis windows are displayed left-to-right
- Fixed: General issue system settings, where an error is displayed when attempt to insert additional pay periods
- Fixed: General issue in reports, where a user is erroneously able to delete a report that is shared publicly
- Fixed: General issue in standard reports, where aggregated number fields (e.g total sum) with 7 or more digits are displayed in scientific notation
- Fixed: General issue on the login screen for Hebrew language, where invalid characters are displayed in place of the hebrew script
- Fixed: Issue in bridge inspection, where a filter could not be applied to some columns on a data window
- Fixed: Issue in bridge inspection, where the user and date update fields are not updated to reflect current status, when 'Setup Condition State Filter' is updated
- Fixed: Issue in bridge analysis, where an error is returned when attempt to edit item scope description for a copied analysis scenario
- Fixed: Issue in maintenance management, where the last section selected in the 'Inv Elem' field from a previous work order creation is retained when creating a new work order
- Fixed: Issue in fleet management, where the labor cost for a repair order was not correctly summing the only costs from the labor day card for the repair order
- Fixed: Issue in the Work Manager app, where an inactive labour resource was available for selection when creating or updating day cards
- Fixed: Issue in maintenance management, where a selected work order on the Daily Log screen was not retained when save changes made to day cards
- Fixed: Performance issue in fleet & equipment management, where an attempt to save updates in the equipment fueling screen took over 20 seconds
- Fixed: Performance issue in resources management, where an attempt to save a new transaction in the materials inventory management screen sometimes results in a hangup of the application
- Fixed: Issue in bridge inspections, where previously attached media to an inspection is removed when additional media attachments are added from an FTP location
- Fixed: Issue in bridge inspections, where the second line of text in a field could not be edited when the application is being used in right to left mode

Known Issues, Limitations & Restrictions

- The new GIS Interface 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.
- 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) whilst 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 uneditable, 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 fast as in 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 browsers 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 dropdown on the inspection teams 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