1. New features

Editor interface

A new interface for editor users that allows to easily edit and validate information before it is publically shared has been created.

The following capabilities have been added to enhance the user experience:

- Attributes of features\(^1\) can be edited either one by one, or in chunks. The editor(s) are able to use the batch editor to modify a group of features at the same time with the same attribute/s.
- Attributes are now grouped by three categories: “Sharing and visibility”, “Situational information”, “Baseline information”. This eases the editing and validating process.
- Any length of a polyline feature can be edited, regardless of how long its segments are. Additionally, a new “roads widget” has been created that allows editors to choose from which position to which position the road has to be edited, breaking the road segments if necessary.
- A new widget manages incoming information received from reports/surveys. This widget groups the reports, allowing the editor have better visibility of reports that are new, under review, validated or discarded.

Analytics functionality

Beyond displaying information as features on the map, LogIE now aggregates the feature attributes and visualizes it through graphs and charts. This new data visualization capability appears inside the “Analytics” widget. On top of this, the charts displayed in the widget are connected to the features on the map, so when the user - for example - clicks on a part of the piechart, all features that are aggregated in this part are highlighted on the map.

Offline capabilities

To improve the usability of LogIE under intermittent access to internet, LogIE automatically downloads the features displayed on the map. That means that when LogIE is being used and the connection goes down, the page is still functional displaying all information that was shown up to this point. This new capability uses the Progressive Web Application (PWA) technology.

A pop-up message will appear on the screen when a user’s device cannot connect to the network. Only a few widgets will be active in offline mode. When the connection is back online, a new pop-up message will inform the user of full online functionality. This functionality will be implemented gradually to all LogIE pages.

\(^1\) A feature is any object that has both geometry and attribute data. In the LogIE interface, a feature can be any point or polyline such as a single bridge or a road segment
New look & feel

To make LogIE easier to use, the page has a new design that affects the overall look and feel.

- Modules appear at the top of the screen as an horizontal menu allowing navigation across different modules. The previously used modules widget is now deprecated.
- When clicking on a specific feature on the map, a pop up window displaying information appears in a way that is easier to read, using less screen space.

Filter widget

The features appearing on the map can now be filtered. When a user would like to filter a specific feature point, other feature points do not disappear, but are still visible through more transparent icons. However, polyline features do disappear. One same filter can affect to multiple information layers.

New PAC reports

A “customized physical access constraint report widget” that allows users to report (following sequential steps) has been developed. Only when a user finishes the last step, will the report be sent. If the user closes the report before sending it out, the widget will offer the possibility to store the report in the browser memory, allowing the user continue to fill out the report later. The report sequence has been designed based on user interviews at field level and opens the possibility to create highly customizable reports (online and offline) based on the respective operational needs. This functionality will be implemented gradually to all LogIE pages.

2. Improvements

- By right-clicking any point on the map, the coordinates of that point are automatically copied to the clipboard. The copied coordinates follow the standard WGS 84
- Improved the way documents are visualized in the pop up window
- Different feature points that are close to each other can be clustered and shown under the same icon on the map. A number on top of the the clustered icon can appear to indicate how many features are grouped. This clustering functionality can be now customized at proximity level.
- The email and URL shown on the printed map (using the print widget) can be now customized by operation.

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2 Modules are groups of information layers that have in common the same use cases. In LogIE there are different modules, Some examples are: Physical Access Constraints and Logistics Capacity Mapping. While the former will mainly contain information about roads and bridges, the latter warehouses. 

3 An information layer is a collection of features grouped. In LogIE interface we can find different layer: such as bridge layer, roads layer, reports layer.

https://logcluster.org/logie/about
• Margins in the printed map have been improved, making the legend and the titles more readable.
• Any point or polyline can show captions. It is now easier to choose if a caption needs to be displayed on the map next to the respective icon.
• When selecting a row of information in the spreadsheet of the table widget, the pop up window of this feature opens automatically, allowing the user to better relate the table widget with every icon on the map.

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