ÆTHER

R.2431 - Release Note

Deployment July 30, 2024

Summary

MAIN TOPICS	MODULE
Flight parameters & metrics - <u>LINK</u>	Data Acquisition
Fixing artefacts - <u>LINK</u>	Digital Inspection
UX/UI improvements - <u>LINK</u>	Infield mobile app
Annotations in 3D comparison mode - <u>LINK</u>	Data Studio
Other upgrades - <u>LINK</u>	All
Solved issues - LINK	All

Data Acquisition - Flight parameters & metrics

CONTEXT

Use case:

- **LiDAR** capture tasks management
- **RGB** capture tasks management
- Capture task activity monitoring

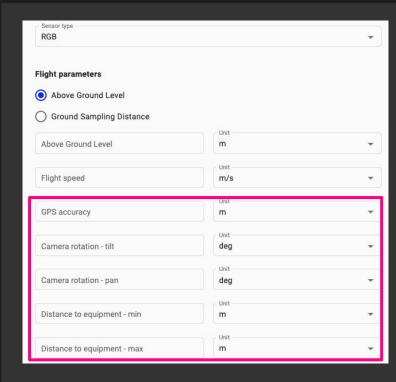
Target Customers: All users having access to Data Acquisition module

PROBLEM SOLVED

- User could not export data coverage metrics
- Data coverage metrics were only available in the UI for point cloud data
- Missing flight parameters for RGB and LiDAR tasks

Data Acquisition | New flight parameters

Additional flight parameters for RGB sensors

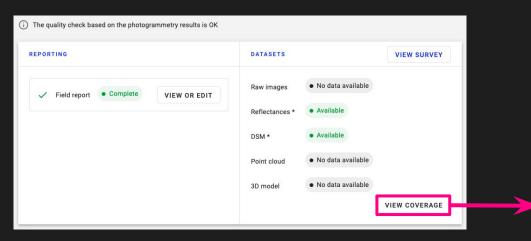


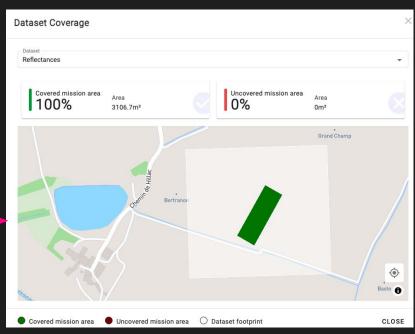
Additional flight parameters for LiDAR sensors

Lidar		*
Flight parameters		
Above Ground Level	Unit m	•
Flight speed	Unit m/s	
GPS accuracy	Unit m	-
Points density	pt/m2	
Number of echos		

Data Acquisition | Coverage map for all deliverables

It's now possible to view the data set footprint for most types of data collection tasks. When the mission area is available, the coverage metrics will also be provided (except for raw images).



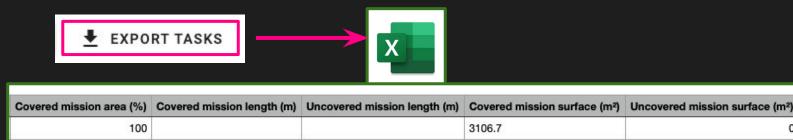


Data Acquisition | Addition of coverage metrics to CSV export

The CSV export now contains coverage metrics:

- Covered mission area (%): for mission area of type linestring, multilinestring and polygon
- Covered mission length (m): if the mission area is of type linestring or multilinestring
- Uncovered mission length (m): if the mission area is of type linestring or multilinestring
- Covered mission surface (m²): if the mission area is of type polygon
- Uncovered mission surface (m²): if the mission area is of type polygon

The metrics are based on the data set of reference associated with the capture task (Lidar point cloud or orthomosaic or reflectance map....)



Data Acquisition - Flight parameters & metrics

CURRENT LIMITATIONS

Flight parameters updated for RGB and Lidar sensor only (other sensor types were out of scope)

NEXT STEPS

Feature upgrade complete

Future improvements:

- Notifications to users
- Field report upgrade

DEPLOYMENT

Enterprise + Apps

Available by default to all users having access to Data Acquisition module

Infield mobile app - UX/UI improvements

CONTEXT

Use case:

Asset Inspection: reporting, quality checks directly based on annotations (initially created in the web app or from the field)

Agriculture: report field observations from an annotation

Target Audience: Operators, technicians involved in asset or, agricultural field inspection

PROBLEM SOLVED

Annotations "Type issue" are now compatible with Infield

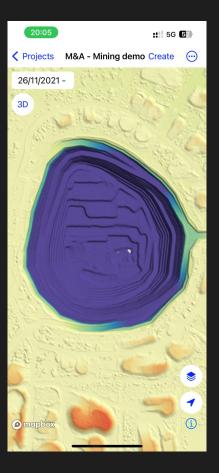
Any raster layers available in the web app can be displayed in the Infield app

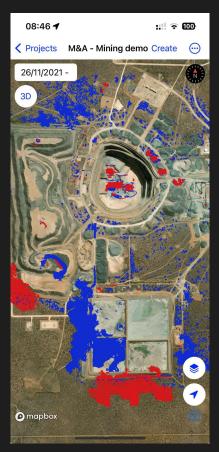
Infield app users now have access to the same level of functionality on both operating systems (Android and IOS).

Infield mobile app | Raster visualization (IOS and Android)

Any raster from the web app can be displayed in Infield (vegetation indices, DSM, DTM, change map...).

The style applied to the map in the mobile app is the default style applied to the web application.





Infield mobile app | Annotations improvements

Upgrades in both IOS and Android versions:

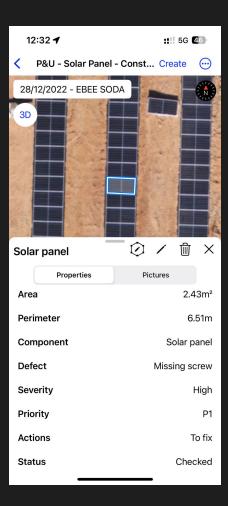
- Annotations of type Issue can now be created and displayed in Infield
 It includes the capability to visualize and edit the inspection attributes
- Annotations can be deleted

Upgrades in IOS only (was already available in Android)

All annotations geometry can be edited

Upgrades in Android only (was already available in IOS)

- Point annotation can be created and edited anywhere on the map, not just at user position
- Annotations information and metrics can now be displayed



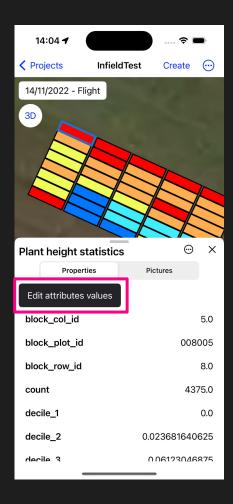
Infield mobile app | Improvements for vectors

Upgrades in both IOS and Android versions:

• Edit attribute values in a more direct access

Upgrades in Android only (was already available in IOS):

• Deletion of pictures attached to a vector



Infield mobile app

CURRENT LIMITATIONS

Rasters and vectors: style not configurable

NEXT STEPS

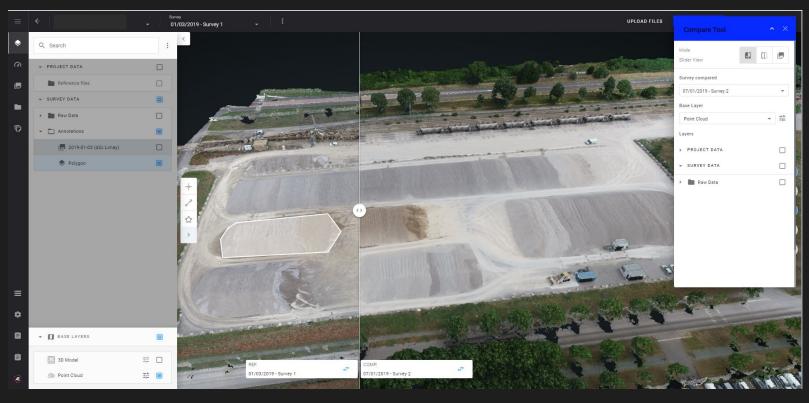
Offline mode

DEPLOYMENT

Available to all users having access to the Infield mobile app (Enterprise and apps)

Data Studio | Annotations in 3D comparison mode

it's now possible to create annotations in the 3D comparison mode. Annotations are always created in the reference survey.



Other upgrades

Photogrammetry update for sensors M3M (RGB) / M3E / Zenmuse Pl

These sensors are now supported for Pix4D mapper without any pre-processing (no need to delete EXIF anymore).

For these sensors, the "roll" is forced to "0" to avoid outliers.

Note: an update is also scheduled for Pix4D engine (PIX4D V2): will be achieved in a second step (by the end of september) Analytic "Spectral index map" - new vegetation indexes

The following vegetation indexes have been added to the analytic parameters:

- TGI: Triangular Greenness Index
- ExG: Excess Green
- GLI: Green Leaf Index

Other upgrades

Cold storage - sort by operation name

In the cold storage module, storage operations can now be sorted by Operation name. Usage monitoring - export pixel count

In the Usage monitoring module, analytics metrics can now be exported.

For the moment, the only available metric is "pixel count" for photogrammetry.

Solved issues

MAINTOPICS	MODULE
Fixed - Issue in generating Data capture tasks from the Season Planner - LINK	Season planner
Fixed - DTM selection issue in a trial - <u>LINK</u>	Season planner

Alteia.com

SUPPORT support@alteia.com

PRESS INQUIRY press@alteia.com

JOB OPPORTUNITIES hr@alteia.com

EVERYTHING ELSE contact@alteia.com





























