



Agrisoft Systems NEWSLETTER

Thirty-ninth edition, Oct.— Dec. 2021

Message from the Management

A look back at 2021 and outlook for the coming year

Dear Customers and Friends,

On behalf of the Agrisoft Systems team I would like to wish you all a happy, healthy and prosperous new year 2022! As usual in our year's end edition of the newsletter, we take a look back at the most important things that happened at Agrisoft Systems in the past year and present some of our ideas and plans for 2022.

The main focus of our development work in 2021 was on the new OMP Plantation version 10.1. The new version was just released at the end of the year and is currently being rolled out to all our MUA (maintenance agreement) customers. The major new feature in this release is a completely new standalone OMP-GIS application for thematic mapping. In contrast with previous versions of OMP-GIS, which required MapInfo Professional or ArcGIS as a host application, the new OMP-GIS is independent of any costly third-party application. We are confident that this will be a real game-changer as it will make thematic mapping and spatial analysis accessible to all OMP users, whereas previously in many plantations only a dedicated GIS operator would have access to the mapping software. Another big improvement in OMP-GIS 10.1 is the built-in support for mapping of geo-coded point-level data from OMP Field Survey. This opens up many exciting possibilities, such as checking at a glance whether surveyors have covered the entire block area or outputting maps of individual palms with certain disease symptoms for further action.

Besides the new OMP-GIS mapping module, OMP Plantation 10.1 also contains a large number of changes in the main OMP application. The biggest change here is related to the way in

which data on block areas and palm census- es is stored. Previously, this data was recorded in OMP as part of a yearly block record. In particular, this meant that it was previously impossible to properly record the case where



the block area changed during the year or more than one palm census was carried out during the year. This was particularly problematic for the case where a block goes into our out of production, e.g. when it becomes mature or during replanting. In OMP Plantation 10.0 and earlier, users could choose to base the area used for yield calculations either on the overall block area, or on the effective area calculated from the most recent count of mature palms. With only yearly recording of areas and palm census data, a change of the block in yield status during the year could not be properly recorded in OMP. This changes fundamentally in OMP Plantation 10.1, where it is now possible to explicitly enter the block area in yield independently of the overall block area and the palm census data. Furthermore, changes in the block areas and palm census data can now be recorded on a monthly basis. This means it is now possible to accurately record the changes in area in yield from month to month when blocks come into production or are replanted, and thus calculate correct overall yield values using the correct area in yield for all monthly reports. As they affect all calculations of per hectare or per palm yields or fertilizer rates, these changes go right to the heart of the OMP Plantation data structure and affect nearly all forms and reports. This explains



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the relatively long development time of the OMP Plantation 10.1 version upgrade. Of course, the upgrade contains also a large number of additional larger and smaller changes. Reviewing them all would exceed the scope of this article, please refer to the “What’s new” document that is sent out as part of the version upgrade process to all customers for further details.

A particularly pleasing development in 2021 was that several of our long-time customers who were running older version of OMP have decided to upgrade to the latest version of OMP Plantation. Over the past months, we have been working together closely with these customers in order to carry out the migration of historical data and implement the new OMP system. As described in more detail in the previous edition of this newsletter, the updated application architecture of OMP Plantation 10 with the SQL Server back-end database is well suited to a cloud-based multi-user implementation. This is particularly advantageous for large groups with multiple plantations and data analysis users scattered over different locations, as it drastically simplifies the process of making new data available to all users. OMP Plantation 10.1 further improves the multi-user capabilities of OMP, as it only requires a single installation rather than separate front-end installations for each user. This significantly simplifies installing and updating OMP especially for system administrators who manage this kind of centralized cloud server.

Of course, our work in 2021 was overshadowed by the on-going Covid pandemic. As a precaution for our staff and to contribute to the efforts of reducing the spread of the disease, the Agrisoft office was kept closed and all staff worked from home for practically the entire year. Once again

our experiences with remote customer support and our internal workflows built up over the past years stood us in good stead to minimize the impact of home working on our development and customer support activities. Nevertheless, with consistently low Covid numbers in Indonesia and completely vaccinated staff, we are looking forward to finally re-open our office from January 2022.

The highest priority for the coming months will be to finish the roll-out of OMP Plantation 10.1 and to complete the OMP version migrations for the customers mentioned above that are upgrading from an older version of OMP. We also expect to support more new and existing customers with the implementation of a central cloud-based OMP system. On the development side, initially we will focus on implementing a number of smaller requests from our MUA customers that had been placed on hold as we were finalizing the OMP Plantation 10.1 release. These include a dedicated analysis report for the best & worst performing blocks, more flexibility in specifying the average bunch weight for OMP-BBC crop forecasts and a number of other data analysis improvements. The next bigger project, which we are planning to tackle side by side with the smaller improvements mentioned above, is the new field work / resource use module that we have already mentioned in previous editions of this newsletter. As usual, a selection of some of the things in the to-do pipeline can be found in the section “From the developer’s desk” at the end of this newsletter.

Yours sincerely,

Max Kerstan



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From the developers desk

A selection of the on-going developments and plans which are part of our constant efforts to continue to improve Agrisoft products.

OMP-BBC

- Define monthly distribution by division / field rather than centrally for the whole estate
- Option of entering own predicted average bunch weight (ABW) values
- Base historical ABW calculation on average multiple previous months
- Exclude outlier values in previous ABW calculations
- Report for 4-month bunches/palm vs actual at division and field level
- On report for 4-month bunches/palm vs actual, show only “complete” months
- Additional report for forecasted vs actual bunches per individual month

Data entry & new fields

- Additional free user-definable marker fields
- Dedicated field for block status in best management practices (BMP) projects
- Field for depth of water table
- Field for relative humidity under climate data
- Field for block soil gravel content
- New point type “palm row” in OMP Field Survey
- Estimate of compost production in OMP Crop Budget
- Option of entering default values in picker definitions tables

Data analysis and reports

- New report to see averages of parameters that affect yields in best/worst yielding blocks
- Add option of fourth parameter on “Monthly/YTD production” form & report
- Grouping option on form “yearly block performance”
- Rainfall charts with option of showing average over whole estate
- Add yield on report “Monthly output by division”
- Display information on crop residue production and utilization on monthly dashboard report
- Additional options of fertilizer reporting, including YTD application and recommendation
- Data analysis features to compare leaf nutrient levels with fertilizer application and recommendations