

 **TECNIPLAST**

Release Note 3.2.0





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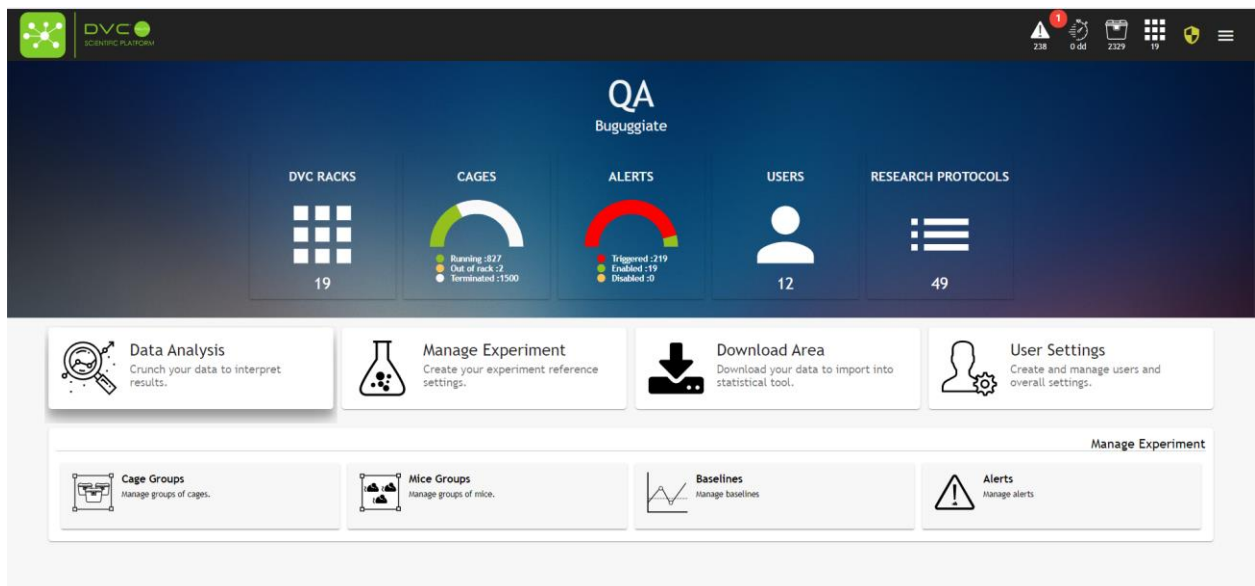
1 RELEASE FEATURES

FEATURES MARKETING

This DVC®Analytics release 3.2.0 is entirely focused on the new feature related to the generation of specific alerts triggered by different conditions applied to the real-time data:

1.1 FEATURE - ALERT MANAGEMENT


This new feature can be found under the section "Manage Experiment", there is a new button called "Alerts".



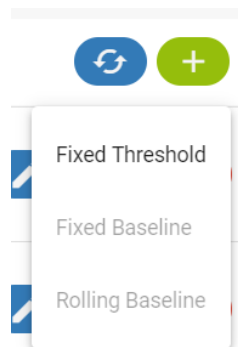
Clicking on this new button, a new menu is opened with the recap of the current open alerts and the possibility of creating new ones:



Status	Alert Name	Metric	Owner	Email	#Cages	
6 alerts, 0 notifications	alert	Animal Locomotion Index (Smoothed)	Luca	Multiple email	6	[Refresh] [Add]
201 alerts, 17 notifications	edgerule	Animal Locomotion Index (Smoothed)	Luca	luca.rignanese@tecnoplast.it	218	[Refresh] [Add]
5 alerts, 0 notifications	edgerule3	Animal Locomotion Index (Smoothed)	Luca	luca.rignanese@tecnoplast.it	5	[Refresh] [Add]
6 alerts, 0 notifications	edgetest2	Animal Locomotion Index (Smoothed)	Luca	Multiple email	6	[Refresh] [Add]
6 alerts, 0 notifications						[Refresh] [Add]

Clicking on the  button, a new pop-up menu is opened where the user is guided through specific 7 steps to create the alert's properties.

- Step 1:** the alert can be created looking at:
- Fixed threshold (currently available)
 - Fixed Baseline (not available yet)
 - Rolling Baseline (not available yet)



Step 2: Insert Name of the alert and Owner of the Alert (if the user is a "Researcher" profile, only this user is available). Then click "Next".



Step 3: Select the Metric for the alert. Currently available are:

- Animal Tracking Distance (if the animal is single housed)
- Animal Tracking Speed (if the animal is single housed)
- Animal Locomotion index (smoothed) (for any cage)

Then click "Next"

Step 4: Now, select the "Condition" to trigger the alert. Currently there are 4 different conditions (with explanation):

- Goes above (metric data goes above a fixed threshold)
- Goes below (metric data goes below a fixed threshold)
- Stays above (metric data stays above a fixed threshold)
- Stays below (metric data stays below a fixed threshold)



Add new Alert Rule

1 Enter Alert Name and Owner

2 Select Metric

3 Enter Alert Configuration

4 Add Email Address for Notification

Condition *

Goes above

Threshold *

5 %

Aggregation window *

2 Unit

Hours

Back Next

Cancel Confirm

Step 5: Now, set the threshold to refer to (in this case, 5% of the specific selected metric). Then, the temporal window to consider for the condition (in this example, 2 hours).

Add new Alert Rule

1 Enter Alert Name and Owner

2 Select Metric

3 Enter Alert Configuration

4 Add Email Address for Notification

Condition *

Goes above

Threshold *

5 %

Aggregation window *

2 Unit

Hours

Back Next

Cancel Confirm

Step 5 bis: dependently from the Condition chosen, different parameters are requested to be set. In this second example, if the user chooses the condition "Stays above" or "Stays below", then other parameters are requested. More specifically, the user has to insert:

- Condition duration (6) and corresponding Unit (hours)
- (fixed) Threshold (5%)
- Aggregation window (1) and corresponding Unit (hours).

This specific example means that the alert is triggered if the selected metric data, expressed in minimum aggregation time of 1 hour each, stay above 5% of fixed threshold for 6 consecutive hours.



The screenshot shows the 'Add new Alert Rule' form at Step 3: Enter Alert Configuration. The progress bar indicates that the first two steps are completed. The configuration fields are as follows:

- Condition *: Stays above
- Condition duration *: 6, Unit: Hours
- Threshold *: 5, %
- Aggregation window *: 1, Unit: Hours

At the bottom, there are 'Back' and 'Next' buttons, and a 'Confirm' button.

Step 6: Last, optionally, you can enter an email address to send the correspondent alert if triggered. User can add multiple email addresses simply adding it

The screenshot shows the 'Add new Alert Rule' form at Step 4: Add Email Address for Notification. The progress bar indicates that the first three steps are completed. The configuration fields are as follows:

- Add email address...: grosati@tecniplast.it, ggottardo@tecniplast.it

At the bottom, there are 'Back' and 'Next' buttons, and a 'Confirm' button.

Step 7: Clicking Next, the entire alert information are recapped. In this specific example, an alert (names ALS Study Alert) will be created and sent to grosati@tecniplast.it and ggottardo@tecniplast.it in case the metric "Animal Locomotion Index (smoothed)" goes above a fixed threshold of 5% for 2 consecutive hours (considering the hour aggregation time for the corresponding metric).



Add new Alert Rule

- ✓ Select Metric
- ✓ Enter Alert Configuration
- ✓ Add Email Address for Notification
- 5 Done


Name: ALS Study alert
Owner: Giorgio
Metric: Animal Locomotion index (Smoothed)
Condition: Goes above
Threshold: 5 % in 2 hrs

[Cancel](#) [Confirm](#)


Then, the user can create unlimited new alerts applying the different criteria, thresholds and aggregation time.

Once a new alert is created, it is listed in the recap page. There are no cages yet assigned to this new alert:

Status	Alert Name	Metric	Owner	Email	#Cages
0	ALS Study alert	Animal Locomotion index (Smoothed)	Giorgio	Multiple email	0

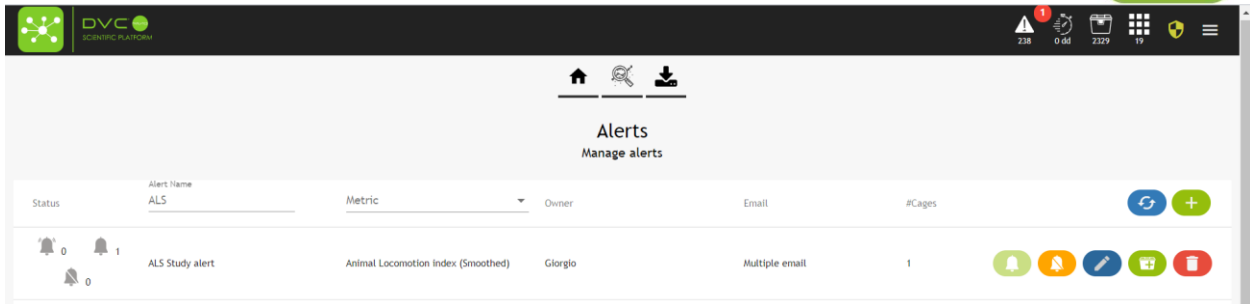
Clicking on the  button, user can add all the cages the alert specifications are applied to (only "Running" and "Out of Rack" cages can be selected).

DVC® Cage List




<input checked="" type="checkbox"/>	Cage Id	Protocol	Registration	DVC Owner	DVCA Owner	Animals	Position	Status
<input checked="" type="checkbox"/>	xavier							Running
<input checked="" type="checkbox"/>	XAVIER03	ProtocolloMarte...	15/01/2020	Riccatore03		1	A5	

Items per page: 8 1 - 1 of 1

From now on, all the selected cages are monitored to check the alert specifications:

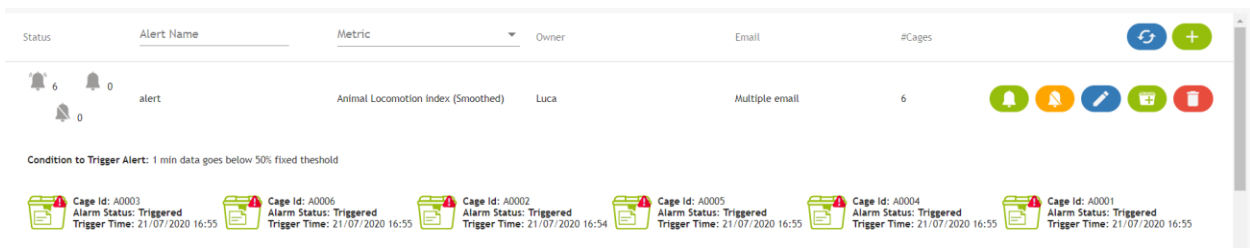


The area related to the status of the Alert recaps:

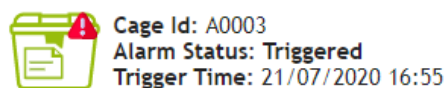
- How many cages triggered the alert  0
- How many cages are enabled for Alert management  1
- How many cages are disabled for Alert management  0

In case the alert is triggered, several different events are generated:

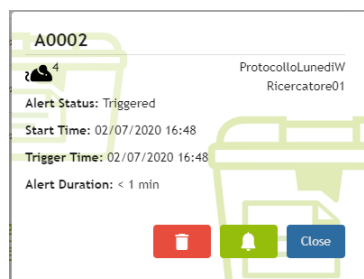
Firstly, there is a quick recap of all the cages in alert just clicking on the alert line and it expands to details all the cages in alert (6 cages in our example):



User can discover the condition to trigger the alert (in this example, 1 min data goes below 50% fixed threshold), Cage id, the status of the alert, and the date and time the alert has been triggered:

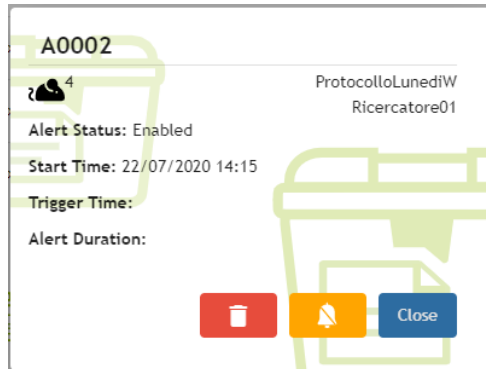


In case the user wants to reset the alert for a specific cage, simply click on it:



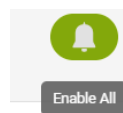
and then click on the  button to reset it.

In case, the user wants to disable or delete from the alert only a specific cage, this one must be in an "Enabled" mode (not triggered). Simply click on it:

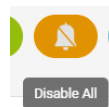


and then click on the  button to disable this cage or click on the  button.

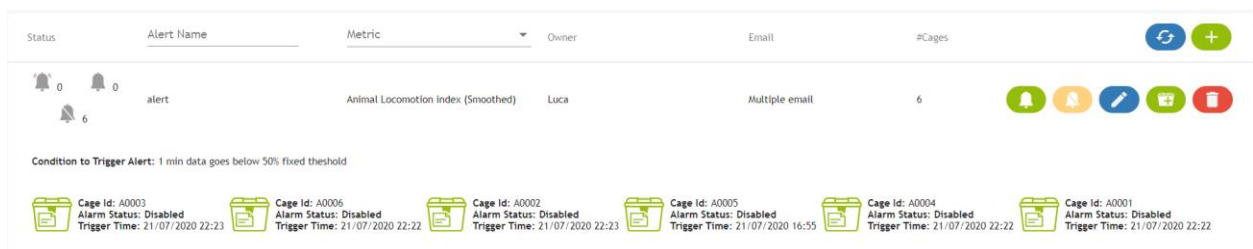
User can also enable all the cages in alert again clicking on the corresponding icon:




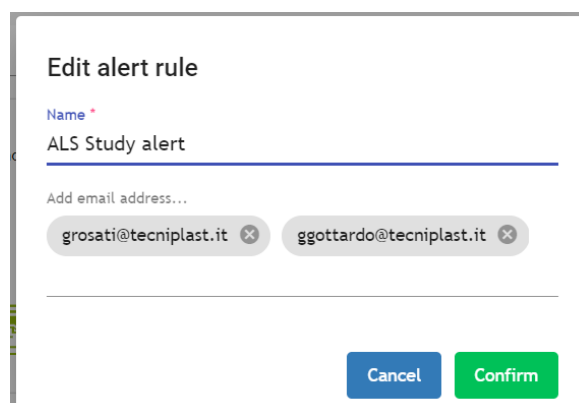
Or, conversely, user can disable all the cages currently under the management of the alert:



In this latter case, all the cages under the management of the alert are set to status Disabled and not monitored anymore:

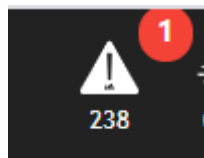


Then, user can modify the name of the alert and the email addresses simply clicking on the  button.

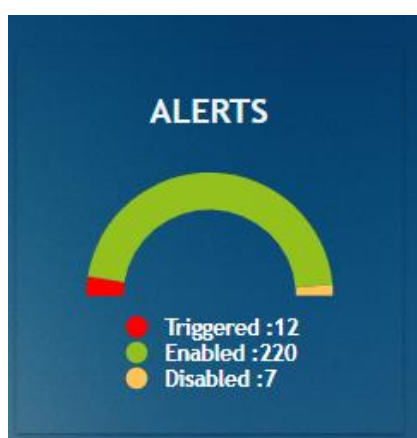




Moreover, on the top right side of the application, there is an icon recapping how many alerts have been triggered (1 in our case) and how many cages currently under the management of the different alerts (238 cages in our example).



Last but not least, also in the DVC® Analytics home page, there is a new central section recapping how many cages are currently under the management of the alerts (220 in our case), how many cages triggered an alert (12 in our case) and how many cages are currently included into an alert but disabled.



Finally, below, the user can find an example of the email that can be received in case an alert is triggered. User can find the name of the alert, the name of the cage and when (date and time)the alert has been created.

DVC Analytics Alert Message



DVC Analytics <dvcanalytics@dev.dvc.tecniplast.it>
A Guido Gottardo - Tecniplast S.p.A.

[In caso di problemi di visualizzazione del messaggio, fare clic qui per visualizzarlo in un Web browser.](#)



DVC ANALYTICS
SCIENTIFIC PLATFORM

DVC Analytics Alert Message

Rule guido, create by adminTP at 2020-07-07 09:11:58 for cage A0001 it was triggered at 2020-07-07 09:12:29

Click [here](#) for further information



 **TECNIPLAST**
innovation through passion