



TECNIPLAST



DVC
DIGITAL VENTILATED CAGE

DVC RELEASE NOTE 6.7

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1 RELEASED FEATURES DVC SOFTWARE

This DVC® release 6.7.0 includes several features.

1.1 FEATURE #1 – OPERATOR LOGIN BY LOCATION

In this version, is possible to enable **location-based login** for DVCOPERATOR interface.

This allows users to access the Operator view while seeing only the cages, racks, alarms and tasks belonging to the selected location, excluding everything that does not fall within the selected location.

The screenshot displays the DVC (Digital Ventilated Cage) Operator Login interface. At the top, the DVC logo and the text "DIGITAL VENTILATED CAGE" are visible. Below the logo, there are input fields for "Username" and "Password". To the right of these fields is a "Select all" checkbox. Below the input fields, there are three selection panels: "Room", "Buoy", and "Rack". Each panel has a "Select all" checkbox and a search button. The "Room" panel shows "RIGHT ROOM" and "LEFT ROOM", with "RIGHT ROOM" selected. The "Buoy" panel shows "Master-Zephyr", "B1", and "B2", with "Master-Zephyr" selected. The "Rack" panel shows "GREEN002A", "EMERALDST001", "GREENST521", and "GREEN393". At the bottom right, there is a green "Login" button.

1.2 FEATURE #2 – LOCALIZED ELECTRONIC TOP HOLDER

Following the previous feature the user can also now assign top holders to specific location in order to be filtered in at login. If no room is assigned, the corresponding top holders will be visible at any location level.

The screenshot displays a web application interface for managing top holders. The top navigation bar includes icons for SCHEDULER, RACKS, REM, NWC, TOPHOLDERS (active), and READERS. Below the navigation bar, there is a search bar and status indicators for Readers (0) and Alarms (143). The main content area is titled 'Top Holders' and contains a table with the following data:

Serial	Name	Status	Online	Last Login	Last Update	Authorized By	Revoked By	Room	Action
24002042	24002042	Enabled	No	20/11/2025, 02:35	14/11/2025, 16:03	Op3		No room assigned	Revoke
22009002	22009002	Enabled	No	05/09/2025, 12:09	05/09/2025, 12:09	Op3		RIGHT ROOM	Revoke
22003989	22003989	Enabled	No	09/05/2023, 08:55	09/05/2023, 08:55	Fmerino		LEFT ROOM	Revoke
22003637	22003637	Enabled	Yes	02/07/2024, 13:07	14/05/2024, 10:20	smaraia			Revoke

1.3 FEATURE #3 – NEW ALARM TAB IN OPERATOR INTERFACE

In this version, the **alarm page** in the Operator interface **has been redesigned**. The new layout provides an immediate, comprehensive overview of all alarms. If needed, the user can then drill down into the details by room, rack and other filters.

Alarms			Localized	Not localized							
Total alarms			Animal in trouble	No badge	Cage flooded	Cage missing	Low feed	No RFID tag	No activity	Wrong cage position	Missing running wheel data
B4			11	12	1	1	19	2	17	9	12
Building: Templest HQ Floor: Diglabs Offices											
Room	Buoy	Rack									
RIGHT ROOM	Master-Zephyr	GREENST521	2	2	0	0	3	0	2	1	0
Room	Buoy	Rack									
RIGHT ROOM	B1	19660003A	3	0	0	0	0	0	0	0	1
Room	Buoy	Rack									
RIGHT ROOM	B2	17009100A	1	0	0	0	0	0	0	3	1
Room	Buoy	Rack									
RIGHT ROOM	B2	20220001A	1	0	0	0	0	0	0	0	0
Room	Buoy	Rack									
RIGHT ROOM	Master-Zephyr	GREEN002A	1	1	0	1	2	1	2	0	2
Room	Buoy	Rack									
RIGHT ROOM	B1	16000003A	1	1	0	0	3	0	1	0	1
Room	Buoy	Rack									
RIGHT ROOM	B1	GMD0UBLESIDE/B/01B	2	4	0	0	6	1	1	0	1
Room	Buoy	Rack									
RIGHT ROOM	Master-Zephyr	EMERALDST001	0	2	0	0	2	0	1	5	0
Room	Buoy	Rack									
RIGHT ROOM	B1	GMD0UBLESIDE/A/01A	0	2	1	0	2	0	6	0	5
Room	Buoy	Rack									
RIGHT ROOM	Master-Zephyr	GREEN393	0	0	0	0	1	0	4	0	1

1.4 FEATURE #4 – NEW DVCISO LED WORKFLOW MANAGEMENT

With this version, the new DVCISO racks use led interaction for tasks and alarms workflow management.

This represents a significant enhancement to the user experience for those having the new DVCISO racks version bought from 1st January 2025.



2 ENHANCEMENTS DVC SOFTWARE

This DVC® release 6.7.0 includes several enhancements to improve or strengthen some of the features already available.

2.1 ENHANCEMENT #1 – TERMINATE CAGE MISSING FROM OPERATOR INTERFACE

A new feature has been introduced that allows users to **terminate a missing cage** directly from the Operator interface.

In the alarm section, a Terminate Icon appears on the alarm information – enabling the operator to terminate directly the cage without going to DVCWOKPLACE.

The screenshot displays the 'Alarms' section of the DVC software interface. At the top, there is a red header bar with the text 'Alarms' and two buttons: 'Localized' and 'Not localized'. Below the header, a red box indicates 'Total alarms 10'. The interface shows a list of alarms with the following details:

- Animal in trouble (1)
- No bottle (1)
- Cage missing (1)
- Low food (2)
- No RFID tag (1)
- No activity (2)

The 'Cage missing' alarm is expanded to show a table with the following data:

Cage id	Last cage position	Created on	Actions
W-25	D7	28/10/2025, 17:09:23	X Terminate

2.2 **ENHANCEMENT #2 – FIXED VULNERABILITIES**

In this version several software vulnerabilities have been addressed and solved.

2.3 **ENHANCEMENT #3 – DEPRECATE SOME UNUSED TABLES IN DATABASE**

Several tables in the database have been deprecated to reduce overall database size and improve the performance of processes related to alarm management, evaluations, tasks, and other system operations.

2.4 **ENHANCEMENT #4 – FLOODING ALARMS**

The flooding algorithm has been improved in terms of robustness: in Autowatering configurations, only the rear electrodes of the cage are treated as priority, while the front electrodes are used to detect signal drops in bottle-based setups.

2.5 **ENHANCEMENT #5 - EXTENDED THE TIMEOUT FOR MANUAL CAGE CHANGE**

Up to version 6.6, the maximum time you could set for the cage changes task timeout was 90 minutes – with the new version, this limit no longer exists.

3 BUG FIX DVC SOFTWARE

This section refers to “user-visible” application bugs that have been fixed by the current release. Some potential bugs refer to the overall infrastructure that are not here reported because “invisible” to the final User unless these are not critical bugs affecting the overall workflow.

3.1 **BUG FIX #1 – FIXED COORDINATES FOR ALARMS IN DOUBLE RACK SIDE.**

The management of position coordinates for alarms on double-sided rack was handled incorrectly, assigning non-existent coordinates.
The issue has now been resolved.

3.2 **BUG FIX #2 – RACKS WITHOUT ASSOCIATED LOCATION**

In the previous releases if any layer of a tree location was missing the task / alarms workflows maybe affected.
We fixed the issue been solved.

3.3 **BUG FIX #3 – UNEXPECTED ACTIVITY ALARM BUGS**

- There was a bug where racks on Side B with an Unexpected Alarm active, the position was not possible to illuminate the rack position.
- For user who have the option “Alarms disabled for cages without registered animals” enabled, the Unexpected Activity Alarm was not triggered.

Both bugs have been fixed.



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