Release Notes

VELOS 2022.2

Public

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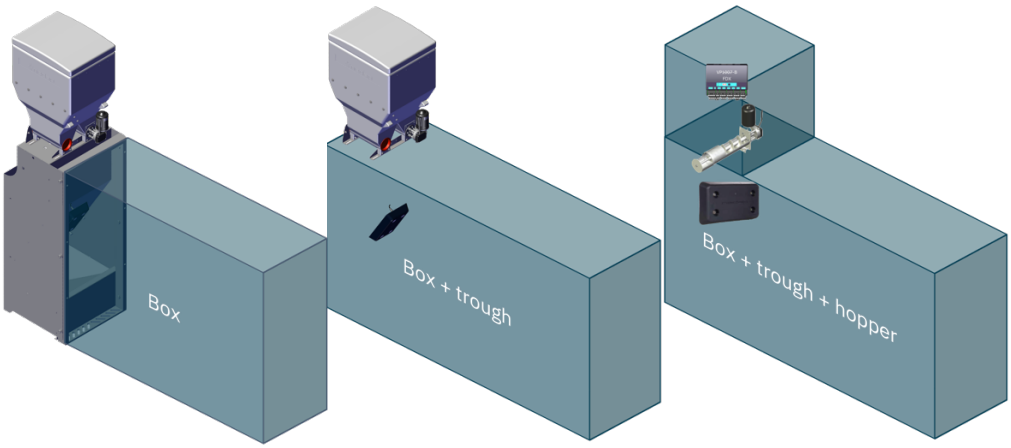
1. Velos 2022.2

First release of Velos 2022.2. This version is suitable for use in SowSense, ProSense and PorkSense. An installation needs to run on version 2021.1 or newer to be able to update to this version. If an installation has an older version be sure to first update to version 2021.1 or 2021.2.

For more information about this version please refer to:
https://www.nedap-livestockmanagement.com/service-support/velos-software-releases/pig-farming-nedap-velos-2022-2/

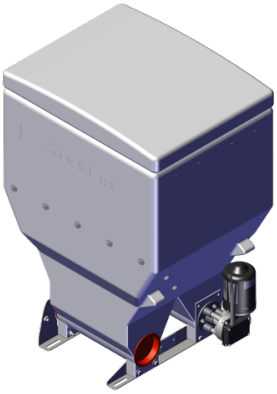
1.1 SowSense (XXXX-XXXX-XXXX-XXXX-2XXX licences)

- In the Nedap Freeda concept OEM-partners of Nedap create their own free access box and optionally also the trough and the hopper. Nedap delivers software and electronics and the remaining mechanic parts.

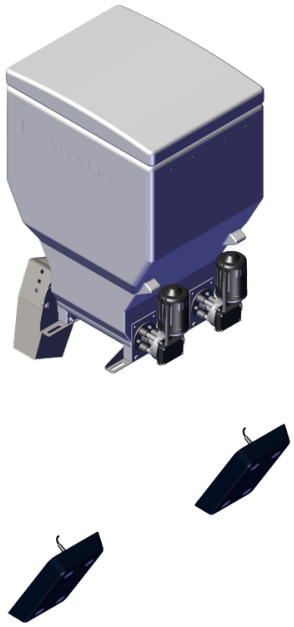


Two new articles have been introduced to make this possible.

Nedap article 8030138 “Single Dosing set Freeda” for use on a single free access box.

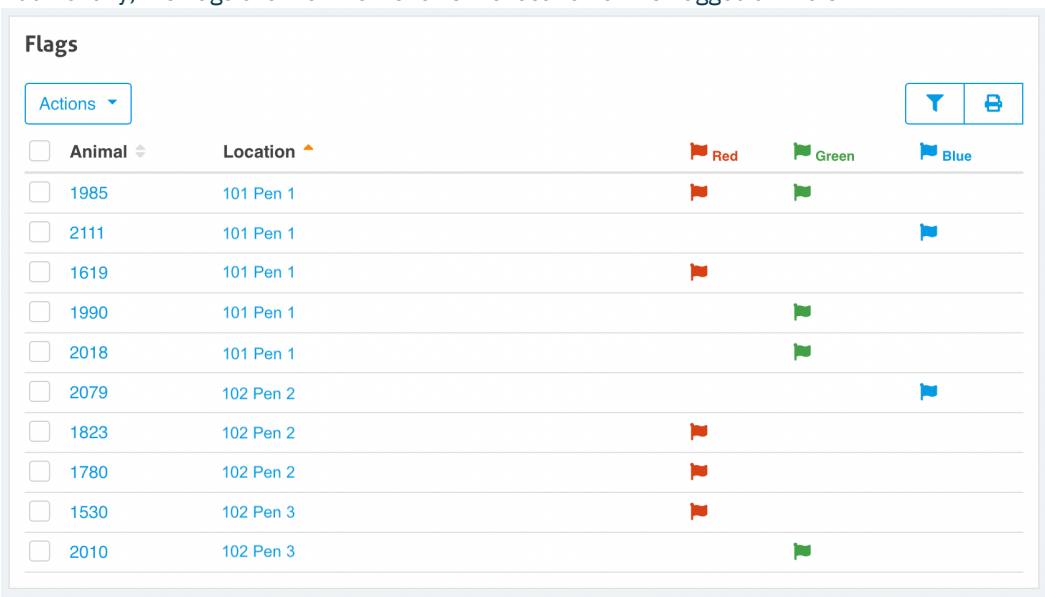


Nedap article 9232818 “Dual Dosing set Freeda” for use on a two free access boxes.



The Nedap dosing sets contains a feed hopper with feed dispensing unit(s), antenna(s) and electronics. This Velos version introduces a new behaviour component to control these feeder units.

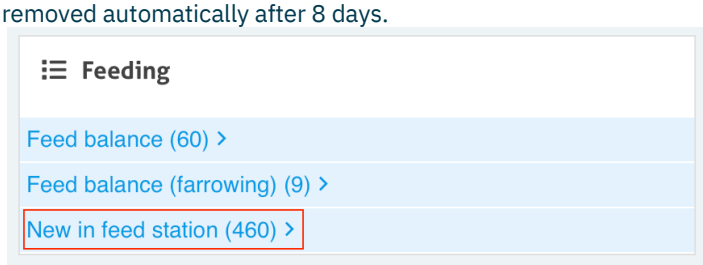
- Improved searching for flagged animals using a handheld. The handheld will now vibrate more intense once a flagged animal has been detected. Therefore, it is now easier to scan all animals without having to look at the display every time. This vibration has been implemented on the AWR300 handheld as well as on mobile devices that are used in combination with a handheld using a Bluetooth connection.
  Additionally, the flags overview now shows the location of the flagged animals



Knowing the location makes it easier to find all flagged animals on a location. The handheld action “Find flagged animals” now shows how many flagged animals there are on the location that is currently scanned.

If a flagged animal is found using the handheld perform the desired action and just remove the flag from this animal by editing the flags on the handheld. This way the counter will count down to zero.

- SowSense has implementations for different types of handheld RFID readers. First there are the, obsolete, Nedap V-Scan and ID-Note and second there are the Bluetooth connected handheld RFID readers. In the Velos user interface, the name “Handheld” was used in both implementations and also other names, like for example “Human Interface Device”, were used. This was confusing. Therefore, following change has been made: Everywhere where the user interface refers to the V-Scan or the ID-Note it is now named as “V-Scan/ID-Note” and in all other cases “Handheld” is used.
- Maximum number of characters for the life number of an animal has been increased to 20.
- The attention “New in feed station” is present in Velos to give users the opportunity to modify Group/Feed plan/Condition/Birth date/Insemination date of the animals that have just been moved to the gestation area. The attention used to stay active until the user manually removed it from the list. This resulted in an unworkable long and slow list in case users did not do this. Although this attention is valuable it is not a must to use it. In case it is not used it loses its value after a number of days. Therefore, this attention is now removed automatically after 8 days.



- Fixed an issue where the feed balance report did not show any data. This was the case for balance today or balance yesterday when feed balance 0 gram and a percentage greater than 0% was specified. For example: 0 gram/25% did not show any data where 1 gram/25% did show data.
- Fixed an issue that caused animals without a specific feed plan set not to be shown on the separation /marking report. Animals that have no specific feed plan set are fed according to the default feed plan.
- Feed visit events that are sent to the cloud now contain the number of the feed type and the silo instead of the internal id.
- Improved the farrowing feeder behaviour component. In very rare cases it could stop working without generating a system attention.
- The system attention for the VPU not receiving any messages from an Activator is now generated after 24 hours no messages from the Activator. This was 2 hours in previous versions but that caused too many false attentions.

- Fixed an issue where the output controlling the water dosing would keep on pulsating if the V-Pack was lost and reconnected. This caused water to be dosed continuously.

1.2 ProSense (XXXX-XXXX-XXXX-XXXX-6XXX licenses)

- Fixed an issue where removing ‘clean trough attentions” didn’t reset the counter of PPTs on secondary-VPUs

1.3 ProSense (XXXX-XXXX-XXXX-XXXX-8XXX licences)

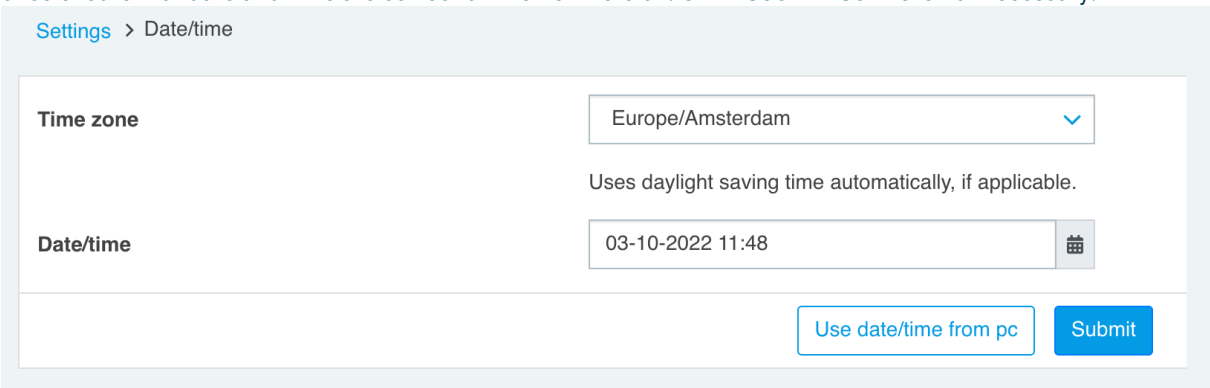
- Added a new application type for a ProSense. This application is activated by licenses with a license code ending on 8XXX. It is a new implementation for ProSense that stores all data recorded by the PPTs in Nedap Now. As Nedap Now is a cloud platform it is now possible to handle larger amounts of data easier and it is also possible to keep and use historical data of the tests for performance analysis purposes.
  The Velos part of this ProSense implementation focuses purely on running the PPTs correctly. Animals and all gathered data are handled completely by Nedap Now applications.

1.4 PorkSense (XXXX-XXXX-XXXX-XXXX-7XXX licences)

- The PorkSense data processing in the cloud has been moved from Nedap-BI to Nedap Now for all PorkTuner installations. PorkSense API connections are still working via Nedap-BI. These API connections still use location information from Nedap-BI. When transferring the backend processing to Nedap Now the location information was accidentally removed from Nedap-BI as well. This has been fixed.

1.5 General (all licences)

- Fixed an issue with the date and time on the VPU (VP8001 and VP8002). In some cases, the VPU-time could become incorrect after a reboot. As a result of this users that have a VPU of type VP8001 will be redirected to the date/time page the first time after upgrade to this version. Here the current time must be specified once ensure that date and time are correct on the new version. On VP8002 VPUs this is not necessary.



- On VPUs of type VP8002 the queues for sending events to the cloud are hybrid from now on. This means that the events in the queue will be stored on disk only when queue becomes too long or if the VP8002 powers down. In normal situations this will result in that the queues will run completely in memory. An abnormal situation would for example be that the internet connection is not available for a while. This new queue implementation reduces use of flash memory drastically and is therefore faster. Queues on VP8001 VPUs still run completely in flash memory.
- On VPUs of type VP8001 and VP8002 the sizes of the queues for sending events to the cloud have been increased for all application types so they can hold data for a longer period of time. These times are approximately 7 days for SowSense, 14 days for ProSense and 7 days for PorkSense
- Added new V-Pack firmware for VP1001 (3.01.03) and VP1007 (3.01.02).

Due to component scarcity Nedap has been forced to be more flexible in sourcing other than originally specified electronic components in electronic hardware in general and in ISO-VPacks in particular.
In practice, this means that not each ISO V-Pack delivered is 100% identical due to variation in components used. In order to maintain the same performance of these slightly different V-Packs, firmware needed to be adapted/updated.
Nedap strongly advises to update all ISO V-Packs with the latest released firmware to avoid any loss of performance. Therefore, it is strongly recommended to update the installed based B-versions of the ISO V-packs to the latest firmware version.

- Temporarily removed the V-Pack firmware of VP4102. Upgrade issues with this version will be solved in the next Velos version.
- Fixed an issue that caused a failure of V-Pack firmware upgrade.
- Behaviour components were not notified when a V-Pack was upgraded to a new firmware version and could therefore run with a wrong idea about the state of the V-Pack. This has been solved.
- Nedap constantly updates the software to prevent security vulnerabilities. In this version some 3rd party libraries have been updated because of this.
- Fixed an issue where the Velos serial port was saved incorrectly. This serial port is used internally on the VPU for communication between the main processor and the CAN interface. This serial port not set correctly therefore causes the communication with the V-Packs to fail.
- Fixed an issue where restoring an empty database failed.
- Fixed an issue where restoring a VPU to factory defaults generated a lot of error log messages.
- Velos now validates that a VPU with the new Variscite hardware module cannot be downgraded. This would make the VPU unusable.

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