Snap Printer Release Notes

Versions 3.42

Changes in Version 3.42.05.08

This version is being released as an official release.

FEATURES:

❖ The capacitive sensor option has been added to the firmware. With the proper hardware installed, this can be used as a sense mark type.

UPDATES:

❖ The menu options for StopOnStrike and Print Assure were moved with the No Remake option in version 3.42.00.00 when resolving ALM #556. They have been separated from the No Remake option and moved to their former location in the F2 menu. StopOnStrike and Print Assure are in the F2 menu.

❖ RFID User memory is now supported. The user memory when supplied by the host will be written to the RFID chip.

Changes in Version 3.42.04d.01

This version is being qualified with the PCMate Universal Build

FIXES:

❖ **PUB-183: SNAP Printer crash when try to print some RFID format**
A bad pointer in the firmware was found that was causing the crash. Further checks were implemented to catch that the pointer was not NULL.

Changes in Version 3.42.04b.01

This version is being qualified with the PCMate Universal Build

FIXES:

❖ **PUB-73: SNAP 3.41.16.07 issue1: StopOnStripe function**
There was a shift in the recording of RFID tags due to the incorrect location of the antenna. This is a problem that only SQC has and which we described in more detail in the "PUB-152: stress test of Puma BP+RFID" thread.

Nothing was changed in the firmware for this issue.

❖ **PUB-130: Stress test of Adidas: E status is found in the print log when no-remake is ON**
This was not reproduced in 6000 tags. The suggestion was 'The problem may be a 'worn-out' MCB, any power interference, incorrect printer settings, etc. on the SQC side.'

Nothing was changed in the firmware for this issue.

❖ **PUB-139: No Remake is always ON for RFID printing**
Change was made, the setting in the NoRemake menu will be how the printer will respond to remaking RFID tags. If the selection is off, then tags stripped will be remade, thus creating a duplicate of the tag. If the selection is on, stripped tags are not remade and this will cause a shortage of printed tags for the batch.

❖ **PUB-178: Printer show error for every restart**
The root of the problem was generated with the uppercase letter in the version number. The test version number has been changed to lowercase.

If an error occurs while printing a batch, such as a power failure, the next time the printer is turned on, an error message will be shown. All open serial reports will be processed and closed, and the next time the printer is restarted, this error message will disappear.

Changes in Version 3.42.04A.01

This version is being qualified with the PCMate Universal Build

FEATURES:

❖ **PIT-24: Support for GS1 QR code**
Support for this barcode has been added. The PCL command ~BF30 will designate that a GS1 QR code is to be printed.

FIXES:

❖ **PUB-135: SNAP v3.42.01.00 can not support to adjust the position of label layout.**
The print adjustment was not working since the Snap 500 RFID model was introduced in version 3.42.00.00. It has been corrected and now the print can be adjusted.
❖ **ALM-705: Print out incorrect for Code 128 E.D.I**
The spacing for the HRI when printed above the barcode was incorrect and has been corrected.

Changes in Version 3.42.02.01

FIXES:

❖ **Hole Sensemark Cal Err**
The hole sensemark option was not working on a Snap 500 RFID printer. This has been corrected.

Changes in Version 3.42.02.00

FEATURES:

❖ **Alignment support for barcode Code128**
The Snap printer now supports center and right justification of the Code 128 Barcode.
Documentation for Code 128

UPDATES:

❖ **Printer Status information has been enhanced for the direction of IOT.**
The Web Server portion of the firmware has been updated to be able to obtain printer status information in the printer and provide the data in a fashion for storage in the cloud. This is moving in the direction of being able to access the printer as part of Internet of Things (IOT). The updated information can be seen by entering *http://<ip of the printer>/printer_diagnostic*. Within that information, "diagnosticPrinterStatus", "diagnosticPrinterStatusCode" have been added.

FIXES:

❖ **Jira PIT-17: Password issue affecting Zorro**
The Inditex access password used the wrong algorithm in version 3.42.01.00, it reverted back to V1 after refactoring the code. The V2 algorithm has been restored as the algorithm to use when the Inditex is selected for the RFID access password.

Changes in Version 3.42.01.00

FIXES:

❖ **Jira PUB-94: SNAP700 shows error after released M&S batch file to the printer**.
Validations for incorrect usage of the new Matrix design have been added. The printer should not crash but provide an error message as to why the batch was not successful.

❖ **Jira PUB-111: Can not print RFID on 3.42.00.00**
There were some issues with the implementation of the Matrix design that affected printing of a RFID format that did not contain a serialization file. Current RFID formats where the EPC is not in a serialization file should now print correctly.

Changes in Version 3.42.00.00

This version of firmware has been updated to version 3.42 to reflect the addition of the Snap 500 RFID printer and other major enhancements.

FEATURES:

❖ **SNAP 500 RFID**
The capability of using RFID stock on the Snap 500 model has been added. The Snap 500 will operate the same as the Snap 700 regarding RFID as long as the RFID module exists on the Snap 500.

❖ **Matrix Support encrypted serialization files**
A new scheme for accepting the encrypted serialization file was implemented. This was done to make the data within the encrypted serialization file more versatile. Currently the Snap printer handles serial numbers, serial numbers and EPC's, EPC's and individual custom passwords within the encrypted serialization file. To be able to handle any combination of data and have the Snap printer know how that data is going to be sent, this matrix design has been implemented.

PCL commands have been added to instruct the Snap printer how to handle the data in the encrypted serialization file. These commands can be found in the Appendix.

❖ **Support for the Lokprint / Sonic Knife has been added.**
These attachments can now be added and used on the Snap printers. The ability to adjust the Cut Drift was added.

The "cut drift" adjustment is intended for use with a SNAP printer with BOTH the Lokprint 2 oven and a Sonic Knife attached to it.

As the material runs through the Lokprint oven, it will either stretch or shrink, meaning that the cut needs to be continuously adjusted to maintain the cuts in the proper place after leaving the oven, as the cut will appear to "drift" without adding this adjustment.

Over time, the cut position will be farther and farther from the desired position.

The value entered in this command represents the relative amount of adjustment to be added. A value of 1 represents the SMALLEST amount of adjustment (for a very small amount of observed cut "drift"), and a value of 25 represents the LARGEST amount of adjustment - for a large amount of observed cut "drift".

The value does not represent either a specific number of tags, OR a specific distance.

The proper adjustment must be determined experimentally.

❖ **Added support for the M6e RFID module.**
The newer RFID module, the M6e has been added. The Snap printer is able to detect this module vs the M5e module to make running seamless for the operator.

UPDATES:

❖ **Enhancement of Printer Diagnostic information for IOT.**
The updates for the Web Server to provide diagnostic information from the printer for moving in the direction of IOT have been enhanced to include the messages that would be seen on the VCP in PCMate.

❖ **ALM #556: Allow for changing of Password for Snap No Remake menu.**
The menu option for No Remake has been removed from the current location. This was done for Brand Protection and access is on a need-to -know basis.

❖ **RFID hop table frequencies for Indonesia have been changed.**

FIXES:

❖ **ALM #658: SQCR000904 - Ralph Lauren - The SN printed after EOD state show 'O' and 'P' state even the labels printed successfully**
Label counting internally was incorrect when the printer was ramping down. Counting internally is meant when the Imager is accounting for tags by commands from the MCB.

❖ **ALM #660: UA V4 format print log last part missing**
The test data provided did not contain a serialized field therefore the data was not reported back to the host.

- ❖ **ALM #661: No Rmake log found E value in the log file**
  Label counting internally was incorrectly reported when a new tag started printing and an interlock such as ink out or printhead was opened. Before, it was thought this was a duplicate tag when it was not and there was no physical tag printed. Counting internally is meant when the Imager is accounting for tags by commands from the MCB.

- ❖ **ALM #662: When StopOnStripe turn ON printer does not stops at where bad label detected**
- ❖ **ALM #663: When StopOnStripe turn ON printer stops multiple times when pritning good labels**
- ❖ **ALM #664: When StopOnStripe turn OFF printer stops that the 4th bad label detected**
- ❖ **ALM #695: Found U value in the log file with interlock test**

- ❖ **Jira PUB-86: U status is found in the log when testing the NoRemake function.**
  It was determined that the letter 'U' is set for the tag that is in the cutter. During power off, a situation may occur when a command is sent to cut the tag, but the knife itself has not yet had time to turn so there is no cut. After turning on the power, it is uncertain whether this tag has managed to be cut.

  Therefore, the letter 'U' (unsure) was introduced, so that the operator would check the tag that is in the cutter. Since the tag can be RFID printed ('P') or stripped ('O'), after the power is turned on this information about this tag will no longer be available. This situation is quite rare, but it can happen. This letter 'U' will be present in QRS status in every power off situation.