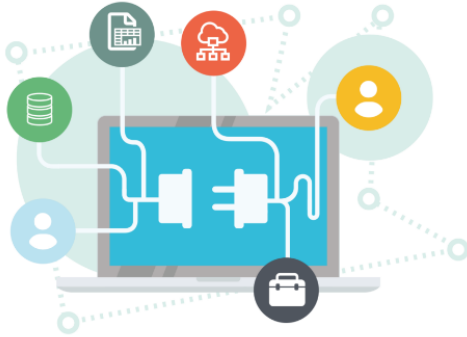# Functional Tips for ScanWorkX

This month's tip for getting more from your Print Envoy implementation!

Unleashing the Magic of Regular Expressions: Taming Data in Your ScanWorkX Mobile Applications

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Did you know that you can add client-side field validation to any field within any ScanWorkX application? Let me show you how:

1. Navigate to DSI ScanWorkX → Application Field Editor, then click on the application and the field name to which you want to add validation.
2. Under Advanced Field Options on the right side of the screen, click the "Validation Type" drop down menu.
3. You can choose from the following validation types: Yes/No, Integer, MathInteger, Decimal, MathDecimal, and RegEx. For this example, we're going to learn to use RegEx!

In the following example, ^[0-9]{18}$ is entered in the "Field Validation Expression" field. This denotes 18 characters, each a numeric digit. You can enter "123456789012345678" in the "Lic Plate" field to test the validation. The "Lic Plate" field is green indicating the validation succeeded.

Here are the pieces of the regular expression and how they work:

- ^   The carat specifies the beginning of the scan.
- [0-9]   This specifies a range of characters to match against, this says any digit between zero and nine.
- {18}   This specifies the number of times to apply the preceding rule. We're saying eighteen digits.
- $ The dollar sign specifies the end of the scan.

If we input a value into the Lic Plate field which does not meet the validation expression, the field will turn blue, indicating the validation has failed.

RegEx can be used to validate just about any field type you can think of. For example,

Format	Regular Expression
YYYY-MM-DD	^\d{4}-\d{2}-\d{2}$
Exactly 10 characters	^.{10}$
Uppercase alphabet letters only	^[A-Z]+$
ABC-1234	^[A-Z]{3}-\d{4}$
Numeric field with exactly 5 digits	^\d{5}$
Only whole numbers	^[0-9]+$
At least 8 characters, including both uppercase and lowercase letters, and at least one digit	^(?=.*[a-z])(?=.*[A-Z])(?=.*\d).{8,}$
Up to 2 decimal places	^\d+(\.\d{1,2})?$
Email address	^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$
US Zip codes	^\d{5}(-\d{4})?$

Here's another tip! You can use ChatGPT to easily generate even more Regular Expressions to fit your exact validation requirements. Regex101.com is another great resource for testing and modifying your validation statements.

Regular Expressions are a great tool to leverage within your ScanWorkX mobile application to ensure accurate and consistent data entry. From dates and strings to numbers and beyond, these RegEx validations will safeguard your ScanWorkX data integrity and reliability. I hope this tutorial helps you to improve the efficiency and quality of your workflow, and get more out of ScanWorkX. If you have any questions on ScanWorkX or are not running the current version (*model 7.145.1.1*) please drop me an email at *Olivia.Johnson@cloudinventory.com* or *scanworkx.upgrades@cloudinventory.com*