Alter Scan Values for Data Normalization and Enhanced Security

Barcodes & More · https://www.codereadr.com/knowledgebase/alter-scan-values-for-normalization-or-security/

Alter Scan Values - Overview

When scanning barcodes, the data encoded within them doesn't always match the information in your database. To ensure compatibility, you may need to normalize or modify the scanned data to align it with your database format. Additionally, there are cases where you might want the barcode's public-facing information to differ from the actual data it represents—for instance, to enhance security or enable dual functionality.

Normalizing Barcode Data for Database Alignment

In scenarios where the scanned barcode data varies from your database records, normalization ensures consistency. This process adjusts the scanned information to match your database format, enabling seamless integration and accurate data processing.

Secure Data Handling with Dual-Function Barcodes

For advanced applications like engagement tracking, transactions, or asset management, Dual-Function QR Codes can be utilized. These QR codes allow you to embed both public-facing and secured data within a single code, providing a versatile solution for various use cases.

Learn more about Dual-Function QR Codes.

Enhancing Security for IDs

For student or other types of IDs, security is often a priority. In such cases, you may want to display one set of human-readable information while the scannable barcode contains a different, securely encoded value. This ensures the actual ID is only revealed when scanned with the appropriate software, such as CodeREADr.

By leveraging Alter Scan Value and Alter Scan Response features, you can create complex patterns using regex (regular expressions) to modify the scanned data dynamically. These patterns add an extra layer of protection, making it challenging to decipher the actual data without authorized access.

Learn more about regex patterns and their applications.

Why Use Alter Scan Features?

- Data Normalization: Align scanned data with database formats effortlessly.
- Enhanced Security: Protect sensitive ID information with scannable and viewable variations.
- Flexibility: Customize data handling for different use cases like asset tracking, ID management, or secure transactions.

By adopting these techniques, you can ensure your barcode solutions are both secure and efficient while meeting the unique needs of your organization.