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Barcode Processing

When a barcode is scanned in TapeTrack it is sent to the Server component to be interpreted and split (or parsed) into its respective components.

Barcode Syntax Rules

A TapeTrack Barcode may be up to 20 characters in length and may contain a Customer-ID and Media-ID component and must contain at least a Volume-ID component.

Parsing Logic

The TapeTrack Server parses barcodes as follows:

The unparsed barcode will be looked up in the Barcode Translation Table and if it is found the translated barcode will be substituted.

When a corresponding Barcode Interpretation Definition is found the barcode is split into Customer ID, Media-ID and Volume-ID components.

If the Customer_ID and Media-ID components are not resolved then the Scanned Default Customer-ID and Scanned Default Media-ID values (if any) are used to set the Customer_ID and Media-ID.

If the Customer_ID and Media-ID components are not resolved then the User Profile Default Customer-ID and User Profile Default Media-ID values (if any) are used to set the Customer ID and Media-ID.

If the Media-ID component remains unresloved and the Customer Properties has the No-Duplicate Volume-ID attribute set then the server will attempt to find the Media-ID for the unique Volume-ID if the Volume-ID exists.

Using the Customer_ID and Media-ID values the Media Properties are looked up.

If the Media Properties has the Remove Volume-ID Suffix value set and there is a matching suffix the suffix is removed.

If the Media Properties have the Modulo 43 option **AND** there is no corresponding length exclusion all except the last digit of the component Volume-ID are processed through the Modulo 43 algorithm.

If the last digit of the Volume-ID does not match the calculated Modulo 43 value a barcode scanning error is returned.

If the last digit of the Volume-ID does match the calculated Modulo 43 value the barcode is returned with the Volume-ID component stripped of it's check digit.

Additional Logic for Batch Programs

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Batch programs that parse barcodes will also check for the existence of the environment variable TMSS10BARCODECONFIG when the program starts.

This variable is used to define the path to a config file containing settings that influence how barcode is performed.

```
set TMSS10BARCODECONFIG=c:\tmss\etc\barcode.cfg
TMSS10ValidateBarcode
```

Example Batch Barcode Config File

```
defaults =
{
    customer-id = "ACME";
    media-id = "DL";
};
```

Programs that load the Barcode Config File

TMSS10Sync
TMSS10Inventory
TMSS10ValidateBarcode

See Also

*Modulo 43

Barcode Scanning

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