# 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

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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