

# 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 unresolved 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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