=Overview=

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.

<pre class="brush:plain"> set TMSS10BARCODECONFIG=c:\tmss\etc\barcode.cfg
TMSS10ValidateBarcode </pre>

#### Example Batch Barcode Config File

<pre class="brush:c"> defaults = {

```
  customer-id = "ACME";
  media-id = "DL";
```

}; </pre>

**Programs that load the Barcode Config File**

*TMSS10Sync *TMSS10Inventory *TMSS10ValidateBarcode

=See Also= *Modulo 43

Barcode Scanning

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