

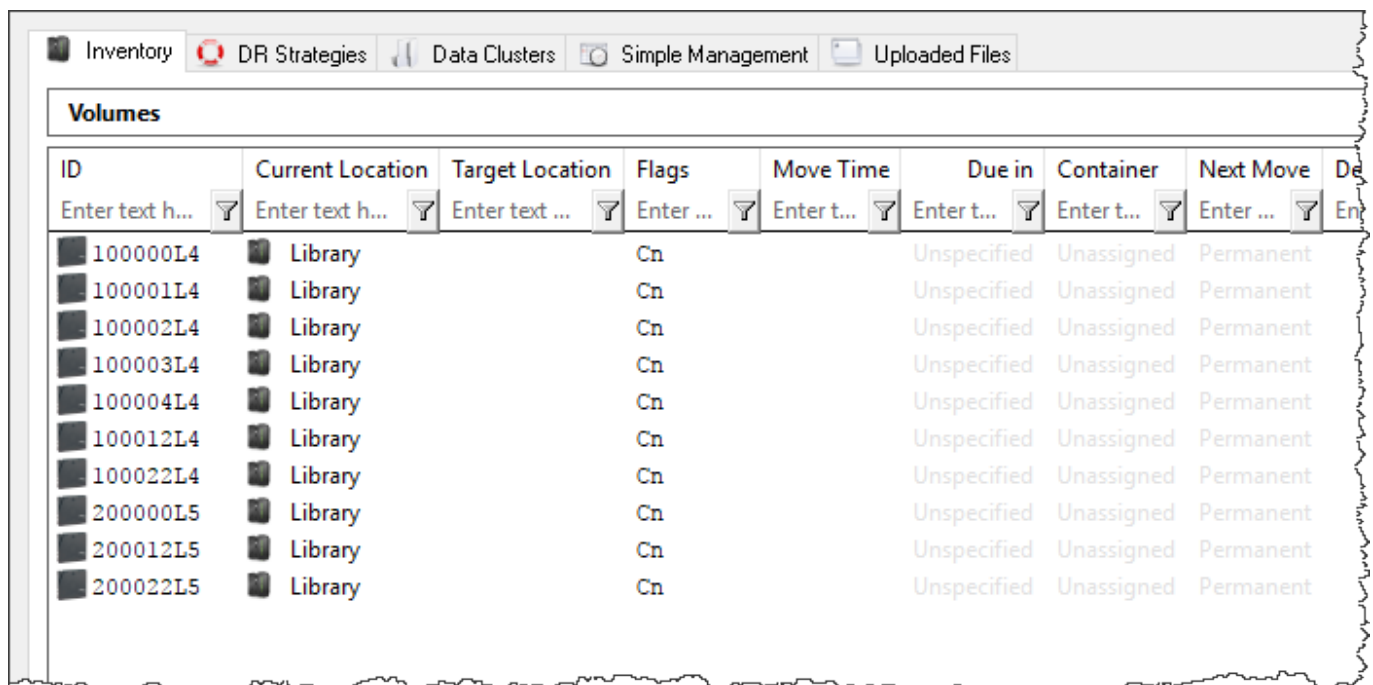
# Pattern matching

TapeTrack has powerful pattern matching functionality that can be utilized globally in [TapeTrack](#) [TapeMaster](#).

## String Pattern Matching

To illustrate the effects of where and how the asterisk wildcard affects search results all examples will be performed against the following [Volume](#) values.

100000L4, 100001L4, 100002L4, 100003L4, 100004L4, 100012L4, 100022L4, 200000L5, 200012L5, 200022L5



| ID       | Current Location | Target Location | Flags | Move Time | Due in      | Container  | Next Move | Date |
|----------|------------------|-----------------|-------|-----------|-------------|------------|-----------|------|
| 100000L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100001L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100002L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100003L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100004L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100012L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 100022L4 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 200000L5 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 200012L5 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |
| 200022L5 | Library          |                 | Cn    |           | Unspecified | Unassigned | Permanent |      |

## Asterisk (\*)

The **Asterisk is used** as a wildcard to allow string matching in multiple positions and variable string lengths.

- An **Asterisk** before a set of characters will show all items that end with those characters. Using the filter \*L4 in the Volume-ID field will show all Volume-ID's ending in L4.

| ID       | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next M |
|----------|------------------|-----------------|-----------|------------|-------------|------------|--------|
| *L4      | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter  |
| 100000L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100001L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100002L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100003L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100004L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100012L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100022L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |

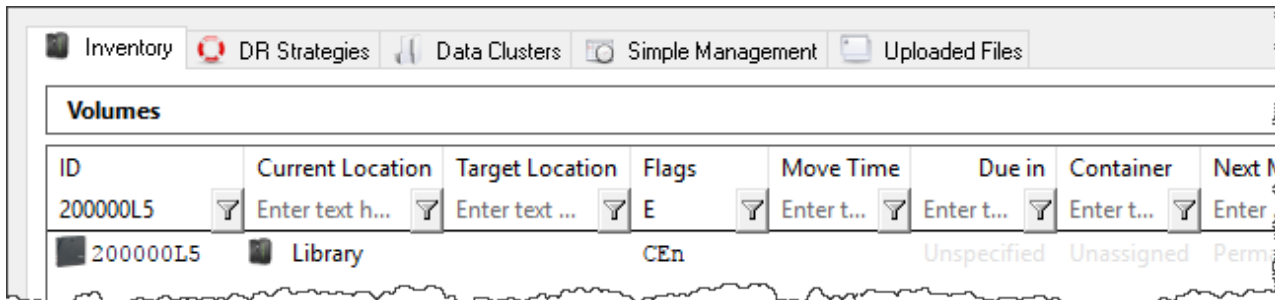
- An **Asterisk** after a set of characters will show all items that begin with those characters. Using the filter 20\* in the **Volume-ID** field will display all **Volume-ID's** starting with 20.

| ID       | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next M |
|----------|------------------|-----------------|-----------|------------|-------------|------------|--------|
| 20*      | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter  |
| 200000L5 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 200012L5 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 200022L5 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |

- If used on its own, the **Asterisk** will match everything and, as such, will have no effect on **Volumes** displayed.
- Using two **Asterisks**, one on either side of a character or set of characters will show all items containing that character or set of characters at any character position. Using the filter \*02\* in the **Volume-ID** field will display all **Volume-ID's** that have 02 anywhere within the ID.

| ID       | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next M |
|----------|------------------|-----------------|-----------|------------|-------------|------------|--------|
| *02*     | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter  |
| 100002L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 100022L4 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |
| 200022L5 | Library          |                 | Cn        |            | Unspecified | Unassigned | Perma  |

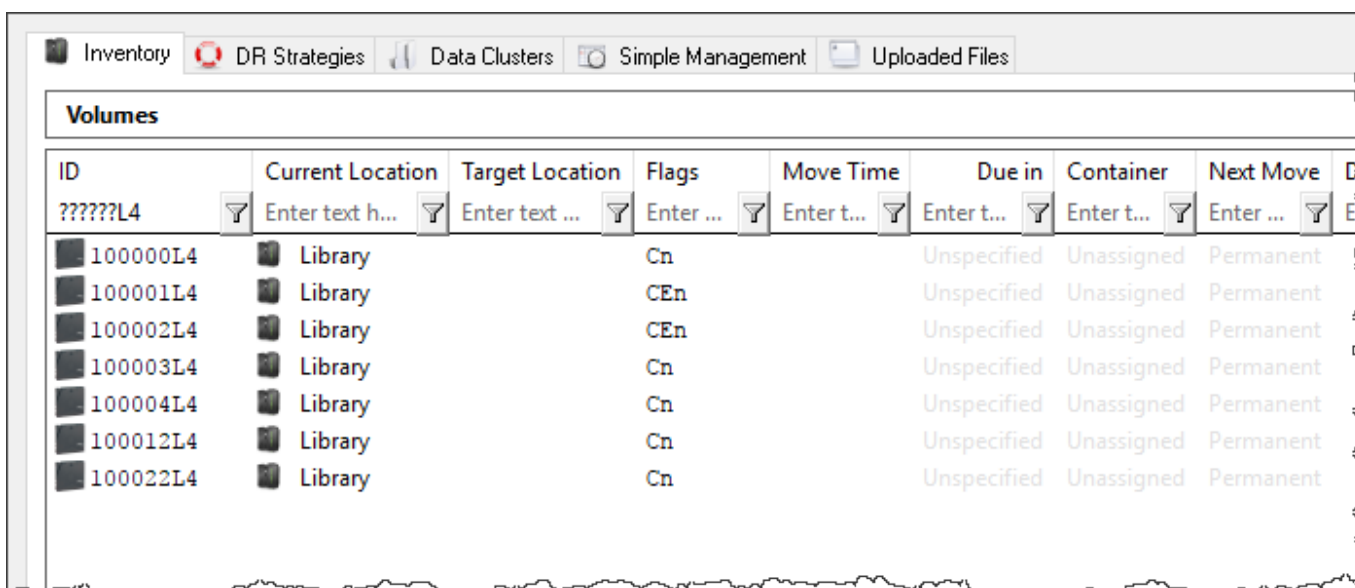
- The Asterisk does not need to be used when entering a full Object-ID or when searching for **Flags** in the **Volume List**. \\



### Question Mark (?)

The **Question Mark** is used to indicate that any character can exist in a specific character position.

Using the filter ??????L4 in the Volume-ID field will display all eight character Volume-ID's ending in L4.



### Square Brackets ([ ])

**Square Brackets** can be used to provide parameters for a specific character position that are longer than one character. There are four different configurations:

#### Multiple Characters

When multiple characters are put in a **Square Bracket**, any of the characters listed will be displayed at the specified character position.

Using the filter, in the Volume-ID field, [12]?????L[45] will display all eight character Volume-ID's that start in either 1 or 2 and end in either L4 or L5.

#### Range Of Characters

Using the filter, in the Volume-ID field, [12]?????L[4-7] will display all eight character Volume-ID's that start in either 1 or 2 and end in either L4, L5, L6 or L7.

| ID          | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next Move | De |
|-------------|------------------|-----------------|-----------|------------|-------------|------------|-----------|----|
| ?????L[1-4] | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... | En |
| 100000L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100001L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 100002L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 100003L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100004L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100012L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100022L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |

### Vertical Bar (|)

When two or more characters are placed between **Square Brackets** and separated by **Vertical Bars**, the **Vertical Bar** will act as the word “OR” displaying any of the characters.

Using the filter, in the Volume-ID field, ?????L[4|5] will display all eight character Volume-ID's that end in either L4 **OR** L5.

| ID          | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next Move | De |
|-------------|------------------|-----------------|-----------|------------|-------------|------------|-----------|----|
| ?????L[4 5] | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... | En |
| 100001L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 100002L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 200000L5    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 200012L5    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |

### Hyphen (-)

When two characters are placed between **Square Brackets** and separated by a **Hyphen**, any character alphanumerically between the two characters inclusive will display.

Using the filter, in the Volume-ID field, ?????L[1-4] will display all eight character Volume-ID's that end in L1, L2, L3 OR L4.

| ID          | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next Move | De |
|-------------|------------------|-----------------|-----------|------------|-------------|------------|-----------|----|
| ?????L[1-4] | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... | En |
| 100000L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100001L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 100002L4    | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |    |
| 100003L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100004L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100012L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |
| 100022L4    | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |    |

### Exclamation Point (!)

When the **Exclamation Point** is placed immediately following the left **Square Bracket** in a set of **Square Brackets**, any character except for the characters listed after the **Exclamation Point** will display. This functionality also works with **Multiple Characters**, **Vertical Bars**, and **Hyphens**.

Using the filter, in the Volume-ID field, `?????L!([1-4])` will display all eight character Volume-ID's that start end in anything other than 1, 2, 3 or 4.

| ID             | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next Move | D |
|----------------|------------------|-----------------|-----------|------------|-------------|------------|-----------|---|
| ?????L!([1-4]) | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... | E |
| 200000L5       | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |   |
| 200012L5       | Library          |                 | CEn       |            | Unspecified | Unassigned | Permanent |   |
| 200022L5       | Library          |                 | Cn        |            | Unspecified | Unassigned | Permanent |   |

## Date Pattern Matching

TapeTrack Date Format

TapeTrack allows you to represent dates both as literal date values and date calculations.

### Syntax

- **YYYY-MM-DD**: ISO Date format

- **\***: Today
- **\*[+-]x**: Today + or - x days
- **M**: The first day of this month
- **m**: The last day of this month
- **Y**: The first day of the year
- **y**: The last day of the year
- **M+-x**: The first day of the month + or - x months
- **M+-x+-y**: The first day of the month + or - x months + or - y days
- **Y+-x**: The first day of the year + or - x months
- **Y+-x+-y**: The first day of the year + or - x years + or - y months
- **Y+-x+-y+-z**: The first day of the year + or - x years + or - y months + or - z days

### Examples

|         |                                    |
|---------|------------------------------------|
| *-10    | 10 days ago                        |
| Y       | the beginning of this year         |
| M-1     | the last day of last month         |
| y-1     | the last day of last year          |
| Y-1+3-1 | the last day of February last year |

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