

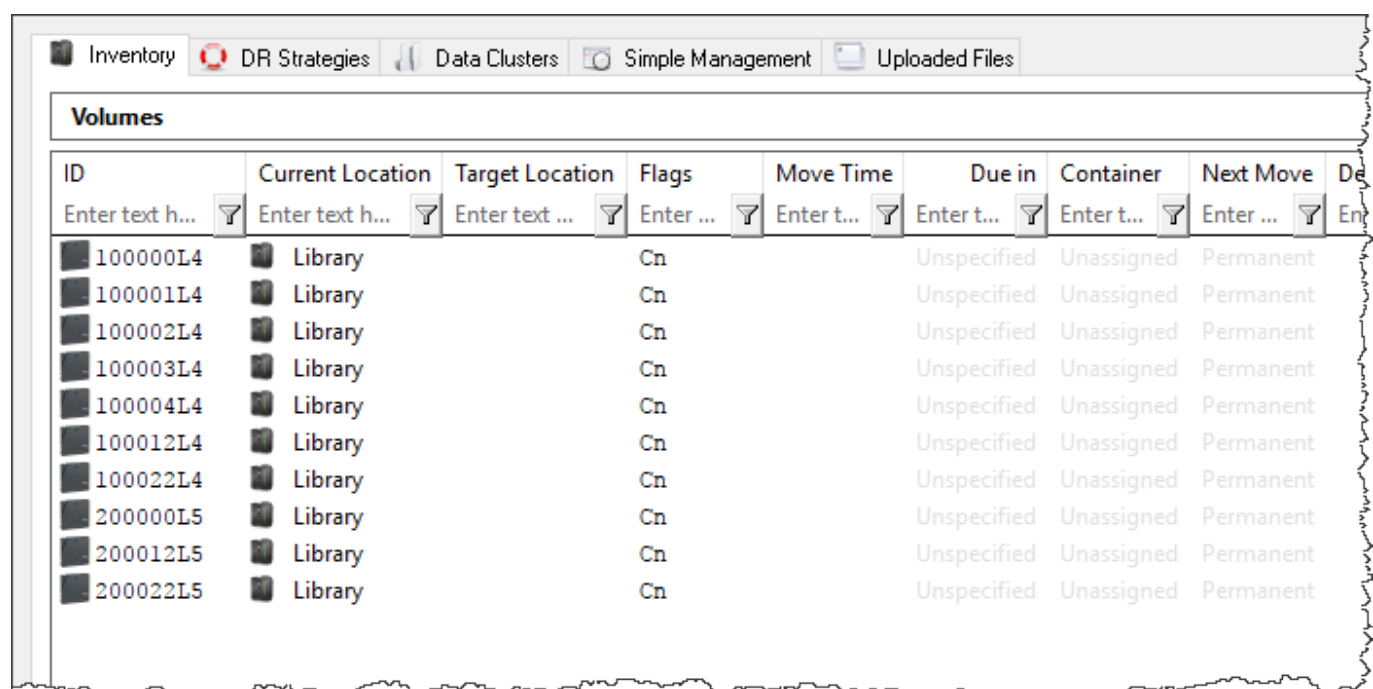
# Pattern matching

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 | De |
|-----------------|------------------|-----------------|-----------|------------|-------------|------------|-----------|----|
| Enter text h... | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... | En |
| 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.

InventoryDR StrategiesData ClustersSimple ManagementUploaded Files

Volumes

| 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.

InventoryDR StrategiesData ClustersSimple ManagementUploaded Files

Volumes

| 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  |

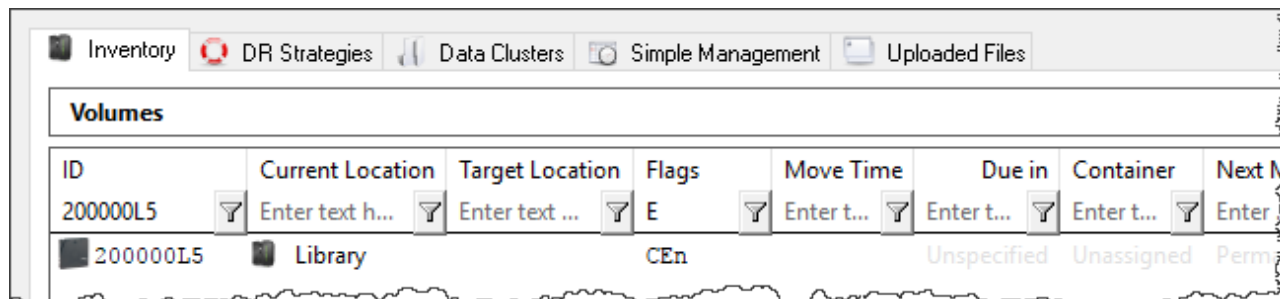
- If used on its own, the **Asterisk** will match everything and, as such, will have no effect on **Volumes** displayed.
- Using two **Asterisks**, one on either side of a character or set of characters will show all items containing that character or set of characters at any character position. Using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

InventoryDR StrategiesData ClustersSimple ManagementUploaded Files

Volumes

| 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**.

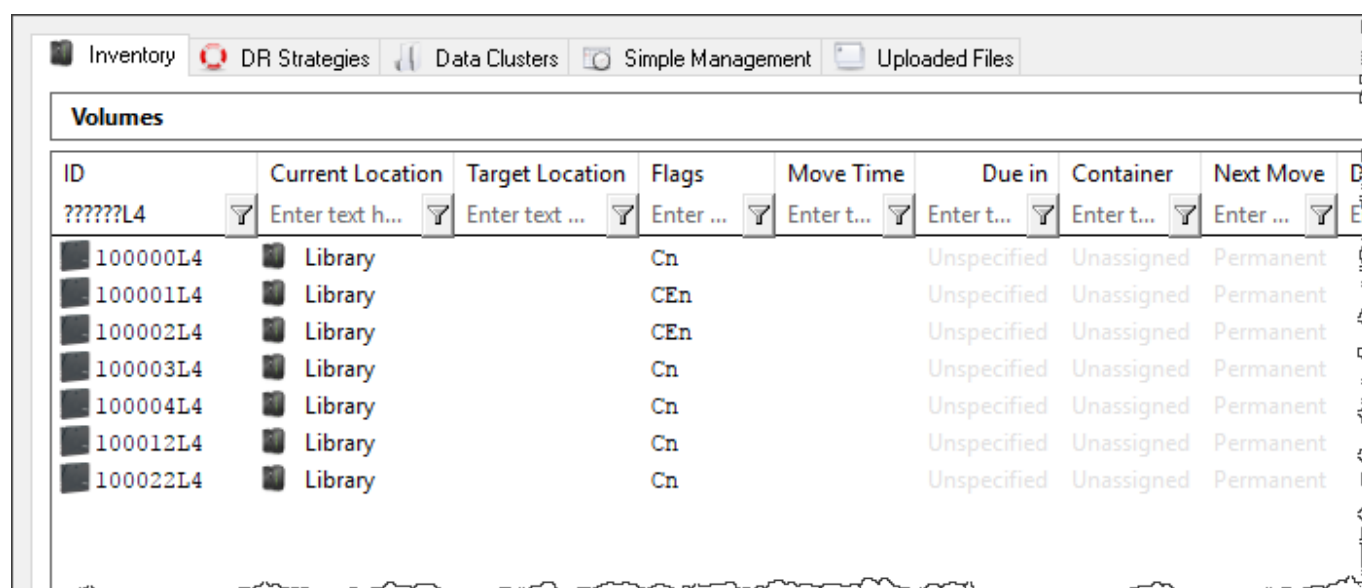


| ID       | Current Location | Target Location | Flags | Move Time  | Due in     | Container  | Next Move |
|----------|------------------|-----------------|-------|------------|------------|------------|-----------|
| 200000L5 | Enter text h...  | Enter text ...  | E     | Enter t... | Enter t... | Enter t... | Enter     |

## 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.



| ID       | Current Location | Target Location | Flags     | Move Time  | Due in      | Container  | Next Move |
|----------|------------------|-----------------|-----------|------------|-------------|------------|-----------|
| ??????L4 | Enter text h...  | Enter text ...  | Enter ... | Enter t... | Enter t...  | Enter t... | Enter ... |
| 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 |

## 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.

InventoryDR StrategiesData ClustersSimple ManagementUploaded Files

Volumes

| 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.

InventoryDR StrategiesData ClustersSimple ManagementUploaded Files

Volumes

| ID          | Current Location | Target Location | Flags | Move Time  | Due in      | Container  | Next Move | De |
|-------------|------------------|-----------------|-------|------------|-------------|------------|-----------|----|
| ?????L[4 5] | Enter text h...  | Enter text ...  | E     | 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.



The screenshot shows the TapeTrack interface with the 'Volumes' table. The 'ID' column has a filter string '?????L[1-4]' applied. The table displays 8 rows of data, all with 'Library' as the current location and 'Cn' as the flag. The 'Move Time', 'Due in', 'Container', and 'Next Move' columns are all set to 'Unspecified', 'Unassigned', and 'Permanent' respectively.

| 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.



The screenshot shows the TapeTrack interface with the 'Volumes' table. The 'ID' column has a filter string '?????L!([1-4])' applied. The table displays 3 rows of data, all with 'Library' as the current location and 'CEn' as the flag. The 'Move Time', 'Due in', 'Container', and 'Next Move' columns are all set to 'Unspecified', 'Unassigned', and 'Permanent' respectively.

| 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 plus or minus number of days (x).
- 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 plus or minus number of months (x).
- M±x±y: The first day of the month plus or minus number of months (x), plus or minus number of days (y).
- Y±x: The first day of the year plus or minus x months.
- Y±x±y: The first day of the year plus or minus number of years (x) plus or minus number of months (y).
- Y±x±y±z: The first day of the year plus or minus number of years (x) plus or minus number of months (y) plus or minus number of days (z).

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 |

From:

<https://docs.tapetrack.com/> - **TapeTrack Documentation**

Permanent link:

[https://docs.tapetrack.com/general/pattern\\_matching?rev=1579743942](https://docs.tapetrack.com/general/pattern_matching?rev=1579743942)

Last update:

**2025/01/21 22:07**

