

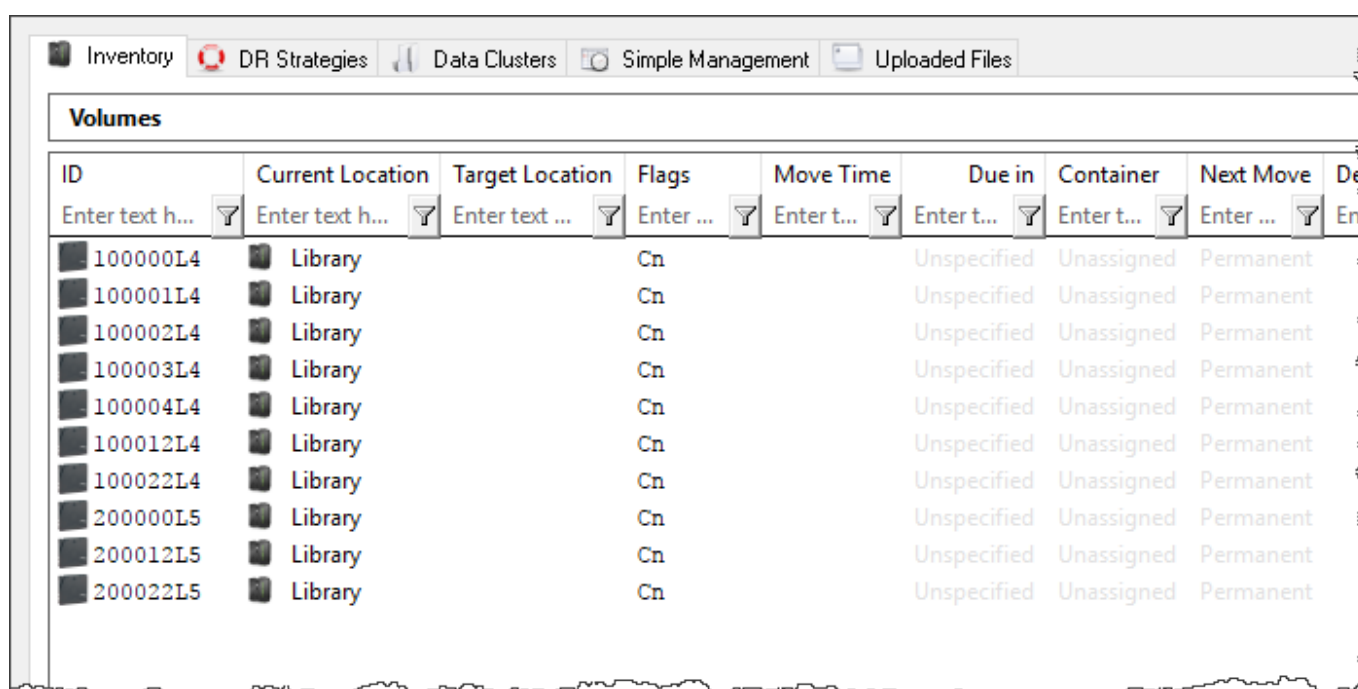
Pattern matching

TapeTrack has powerful pattern matching functionality that can be utilized globally in 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



The screenshot shows the 'Volumes' section of the TapeTrack interface. It features a table with columns for ID, Current Location, Target Location, Flags, Move Time, Due in, Container, Next Move, and De. Each column has a search filter icon. The table contains ten rows of data, all with 'Library' as the current location and 'Cn' as the flag. The 'Due in' column is set to 'Unspecified', 'Container' to 'Unassigned', and 'Next Move' to 'Permanent'.

| ID | Current Location | Target Location | Flags | Move Time | Due in | Container | Next Move | De |
|----------|------------------|-----------------|-------|-----------|-------------|------------|-----------|----|
| 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.

The screenshot shows a web interface with a navigation bar containing 'Inventory', 'DR Strategies', 'Data Clusters', 'Simple Management', and 'Uploaded Files'. Below is a 'Volumes' table with the following columns: ID, Current Location, Target Location, Flags, Move Time, Due in, Container, and Next M. The filter '*L4' is applied to the ID column. The table displays seven rows of volume data, all starting with '10000'.

| 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.

The screenshot shows the same web interface as above, but with the filter '20*' applied to the ID column. The table displays three rows of volume data, all starting with '20000'.

| 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 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 *20* in the volume ID field will display all volume ID's that have 20 anywhere within the ID.

The screenshot shows the same web interface as above, but with the filter '*02*' applied to the ID column. The table displays three rows of volume data, showing '02' appearing in various positions 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**.

| ID | Current Location | Target Location | Flags | Move Time | Due in | Container | Next Move |
|----------|------------------|-----------------|-------|-----------|-------------|------------|-----------|
| 200000L5 | Library | | CEn | | Unspecified | Unassigned | Permanent |

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 | | | | | | | |
| 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.

| 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 ... | 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.

| 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**.

[image](#)

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 - x days

Examples

| | |
|---------|------------------------------------|
| *-10 | 10 days ago |
| Y | the beginning of this year |
| M-0- | 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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