# How TapeTrack Displays Data

One of the more curious aspects of TapeTrack is how it displays tape information, and how this is often at odds with how people initially perceive how the data should be displayed.

## How People Expect Tape Data to be Displayed

Most companies who acquire TapeTrack have been performing some kind of tape management function for decades. Initially this management was associated with a mainframe and the management revolved around a Picking and Distribution List.

Each day the Picking and Distribution List would be produced, and it would comprise of 4 parts (presuming there were only two locations).

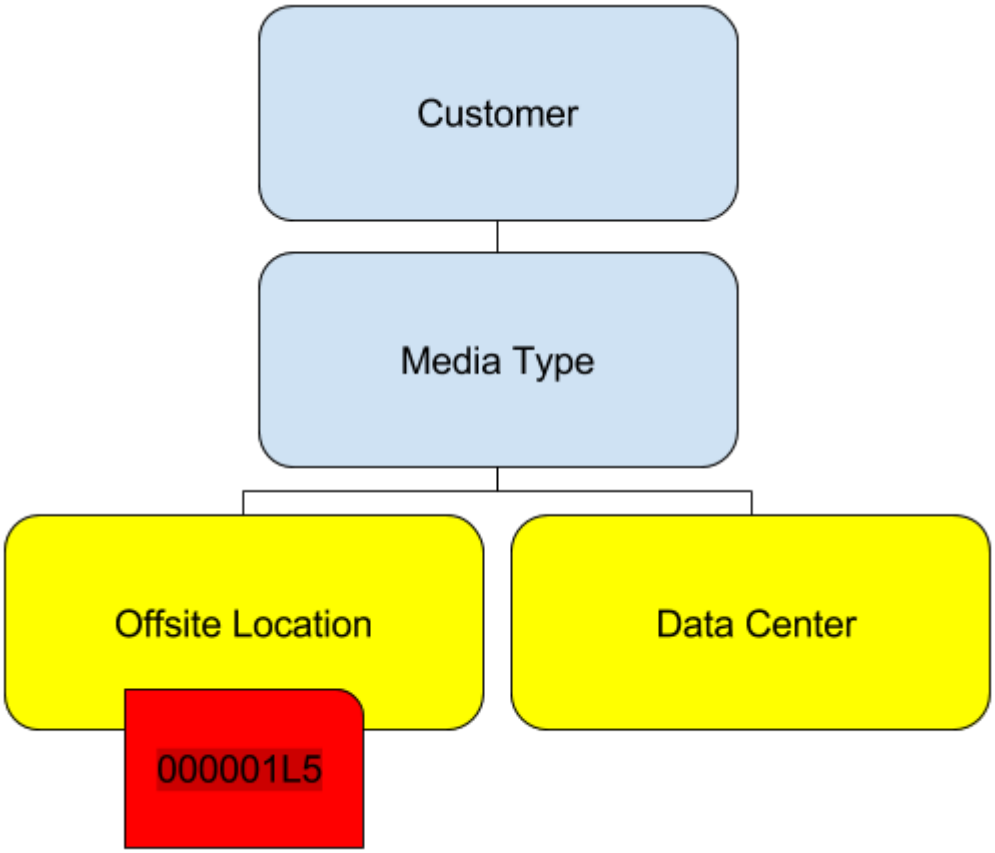
1. Tapes to be sent offsite to the vault (*picking*).
2. Tapes to be returned from the vault (*picking*).
3. Tapes to be received from the vault (*distribution*).
4. Tapes to be put away at the vault (*distribution*).

For each of the picking lists, there was a corresponding distribution list which had the exact same tapes on it.

Where each party had their own tracking process in place, either a spreadsheet, or some sort of home-grown application, and each of these applications displayed a tape as being in, or out.

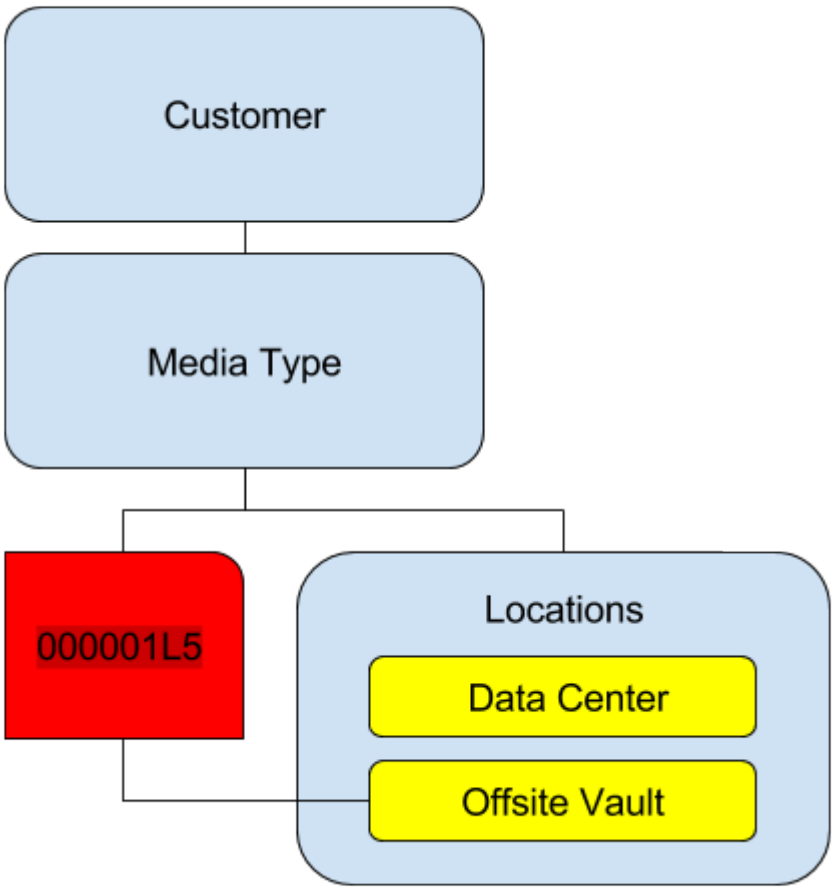
For instance, if tape `000001L5` appeared on today's picking list for the vault, if all went to plan, at the end of the day, the vault would show `000001L5` as being out, and the data center would show `000001L5` as being in (in some implementation the system might also delete, and add the tape on each respective system).

For this historic reason, people instinctively see each tape as belonging to a location.




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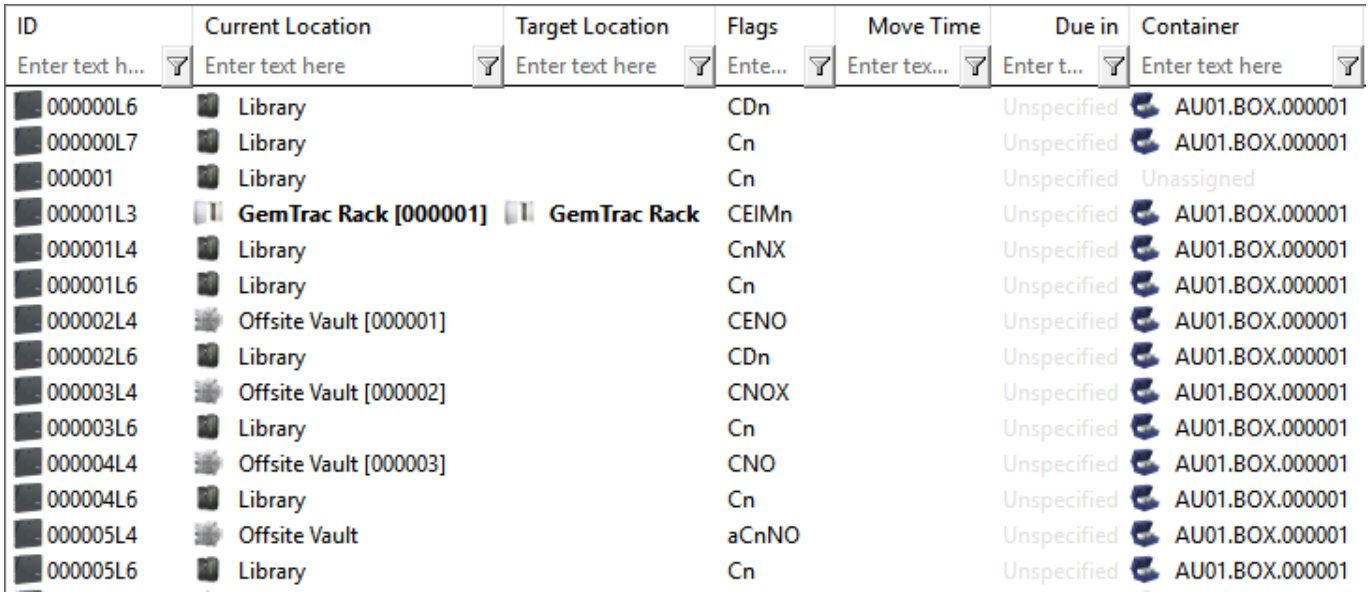
TapeTrack has been designed to provide a global view of all tapes. for this reason, rather than presenting a given tape volume as an object that is contained within a specific location, a tape object, presents the location of a tape as an characteristic of each tape, i.e. this is tape `000001L5`, and it is currently in the Offsite Location, but it is moving to the Data Center.




## Advantages of Location as a Characteristic

In presenting the location of a tape volume as a characteristic the user obtains the following advantages:

1. Simplified volume searching (you can search for a group of tapes, irrespective of their current location).
2. Fast reporting across location boundary (you can search for volumes that are moving, irrespective of their current location.
3. Simplified volume moving (you can move all volumes ending in L5 to a specific location).



| ID | Current Location | Target Location | Flags | Move Time | Due in | Container |
|---|---|---|---|---|---|---|
| Enter text h... | Enter text here | Enter text here | Ente... | Enter tex... | Enter t... | Enter text here |
| 000000L6 | Library | | CDn | | Unspecified | AU01.BOX.000001 |
| 000000L7 | Library | | Cn | | Unspecified | AU01.BOX.000001 |
| 000001 | Library | | Cn | | Unspecified | Unassigned |
| 000001L3 | **GemTrac Rack [000001]** | **GemTrac Rack** | CEIMn | | Unspecified | AU01.BOX.000001 |
| 000001L4 | Library | | CnNX | | Unspecified | AU01.BOX.000001 |
| 000001L6 | Library | | Cn | | Unspecified | AU01.BOX.000001 |
| 000002L4 | Offsite Vault [000001] | | CENO | | Unspecified | AU01.BOX.000001 |
| 000002L6 | Library | | CDn | | Unspecified | AU01.BOX.000001 |
| 000003L4 | Offsite Vault [000002] | | CNOX | | Unspecified | AU01.BOX.000001 |
| 000003L6 | Library | | Cn | | Unspecified | AU01.BOX.000001 |
| 000004L4 | Offsite Vault [000003] | | CNO | | Unspecified | AU01.BOX.000001 |
| 000004L6 | Library | | Cn | | Unspecified | AU01.BOX.000001 |
| 000005L4 | Offsite Vault | | aCnNO | | Unspecified | AU01.BOX.000001 |
| 000005L6 | Library | | Cn | | Unspecified | AU01.BOX.000001 |

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