Virtual Slot

The **Virtual Slot** allocation is a number of the slot based on sequential numbering of all slots from the zones allocated to a repository.

For this example we will use three LTO storage racks. Each of these racks with:

- a capacity of 100 tapes
- 10 storage shelves.
- 10 slots per shelf.

These racks will be assigned names of Rack_01, Rack_02 and Rack_03

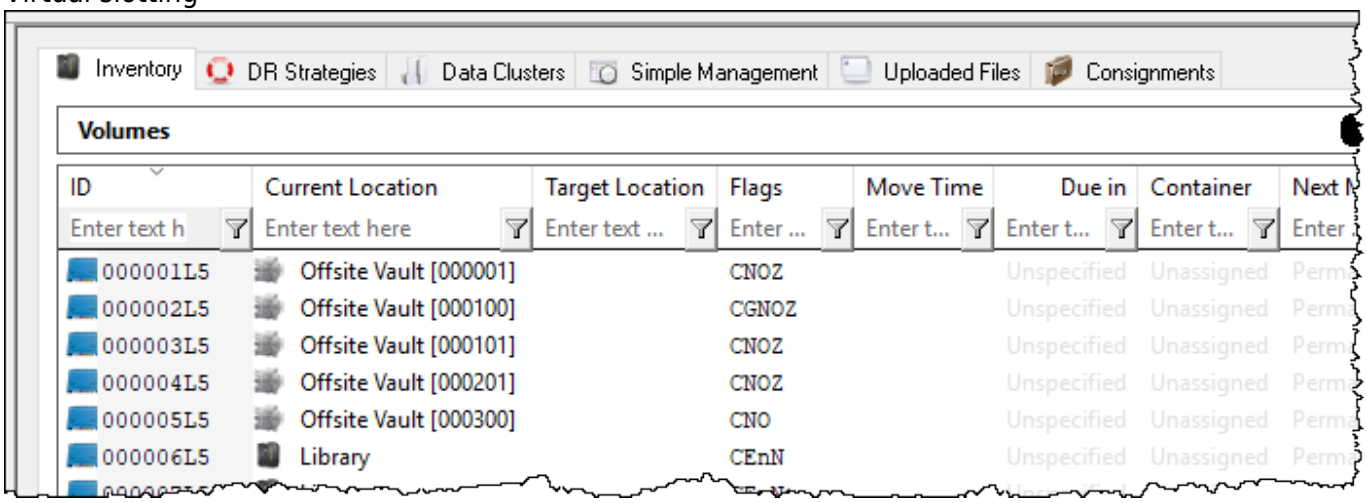
If these three racks are completely assigned to one repository, there will be 300 virtual slots available for volume allocation.

- Slot 1 would be the first slot in Rack_01
- Slot 100 would be the last slot in Rack_01
- Slot 101 would be the first slot in Rack_02
- Slot 201 would be the first slot in Rack_03
- Slot 300 would be the last slot in Rack_03

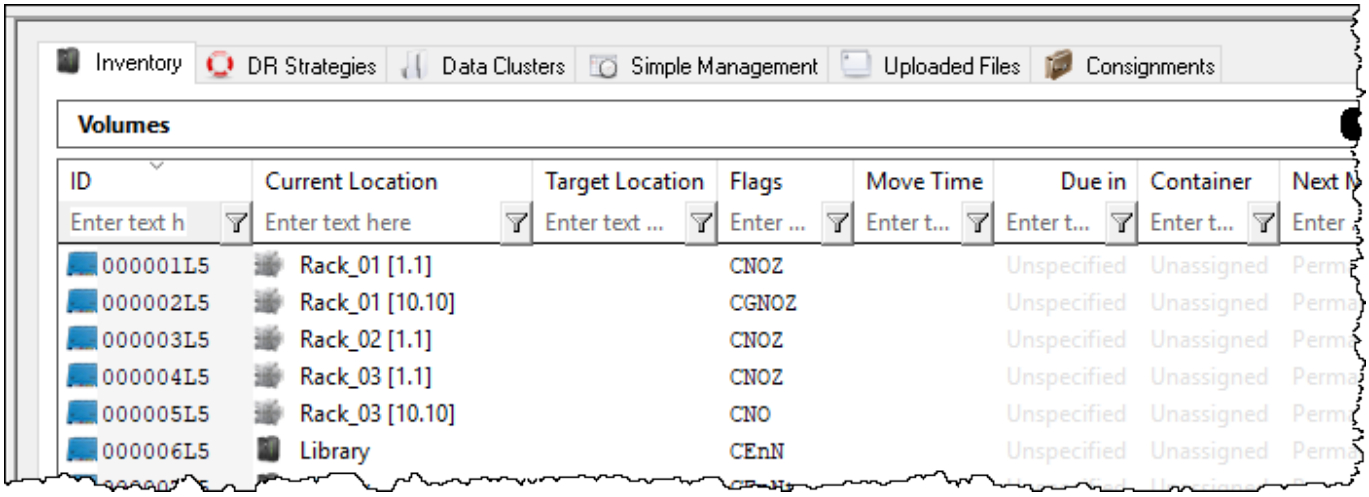
Assigning volumes to slots

- volume 000001L5 to slot 1
- volume 000002L5 to slot 100
- volume 000003L5 to slot 101
- volume 000004L5 to slot 201
- volume 000005L5 to slot 300

Virtual slotting



Physical slotting



If the first 50 slots in storage rack 1 were assigned to customer AAAA, and the rest of the racking, 250 slots, assigned to customer BBBB. For Customer AAAA

- Slot 1 would be the first slot in Rack_01
- Slot 50 would be the 50th slot in Rack_01

For Customer BBBB

- Slot 1 would be the 51st slot in Rack_01
- Slot 50 would be the 100th slot in Rack_01
- Slot 51 would be the 1st slot in Rack_02
- Slot 151 would be the 1st slot in Rack_03
- Slot 250 would be the 100th slot in Rack_03

Physical Slot

The **Physical Slot** allocation is a slot number showing the physical location of a slot in the storage rack that remains unaltered regardless of which repository or customer it is allocated to.

For this example we will use three LTO storage racks, each with a capacity of 100 tapes over 10 shelves.

If these three racks are completely assigned to one repository, there will be 300 virtual slots available for volume allocation.

- Slot 1 would be storage rack 1, shelf 1, slot 1
- Slot 100 would be storage rack 1, shelf 10, slot 10
- Slot 101 would be storage rack 2, shelf 1
- Slot 201 would be the first slot in storage rack 3
- Slot 300 would be the last slot in storage rack 3