

What is a Tracking entity?

A unique physical container (e.g box, pallet), containing a unique product (e.g Tins of Tuna).

A Tracking entity can have an expiry date,
a lot or batch number,
a serial number,
a Quantity
and can be in a single Location.

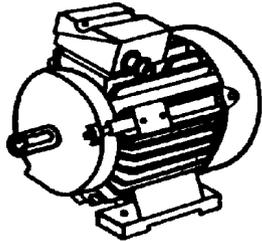
A tracking entity cannot be in 2 locations at once (it is a physical thing)

A tracking entity cannot represent two different products at the same time

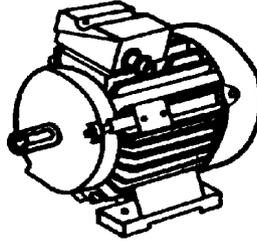
Cannot mix expiry dates or batch numbers without losing the Granularity

Picture this

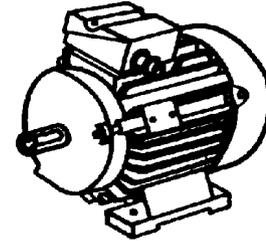
Three motors arrive in a warehouse -each has a different serial number



Motor 1
Serial Number 00019201/1



Motor 2
Serial Number 00019341/3



Motor 3
Serial Number 00020007/9

Each is tracked by Serial number, has a quantity of 1, and is put in a different place in the warehouse.

These are Tracking entities.

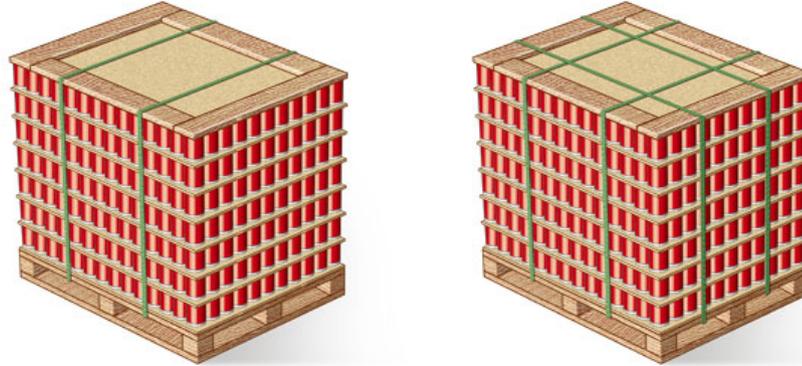
The accounting system knows you have 3 motors.

GraniteWMS knows you have 3 separate, physical motors, each with a serial number, and each in different bin locations. It also knows when each were received and who received them and put them away,

Picture this

2 Pallets of Tuna cans arrive in the warehouse.

Pallet 1:
All same product
1000 cans of tuna
All same Batch and Expiry date
Batch number 201511CC



Pallet 2:
All same product
1000 cans of tuna
Two different Batch numbers
201511AA and 201511CX

Pallet 1 is a Tracking Entity -it can be received and put away in a location

Pallet 2 must be split into two, separating the batch numbers. This means pallet 2 is received with 500 cans and a pallet 3 is made with 500 cans. Pallet 2 and Pallet 3 have different batch numbers.

The accounting system knows you have 2000 cans in the warehouse.

GraniteWMS knows you have 3 separate pallets, one with 1000 cans and then one with 500 cans of batch 201511AA and another with 500 cans of batch 201511CX. Each pallet is put away in different locations. Granite tracks this and also knows which pallet is the oldest and should be picked from first.

Picture this

10 boxes of Medical supplies arrive in receiving



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Pallet of boxes.

Each box is uniquely labelled and tracked.

Each box has a unique batch number and expiry date.

Each box is a Tracking Entity

If you pick from a specific box, you scan that box and take product from it.

Granite knows that you have 9 full sealed boxes and one open box with a reduced quantity. Granite knows how many in that open box and which orders have been picked from that box.

Picture this

A Shipping Rack of 800 hammers arrive in Receiving



Hammers have no traceability requirement

We have a picking with 50 hammers on the shelf

The bulk bin of 800 hammers can be stored in the bulk area

The hammers are in the bulk area.

When the picking area runs low, you replenish from Bulk to picking location.

Scan the bulk bin Tracking Entity barcode, enter the Quantity you are taking to picking and scan the picking barcode to move that quantity from Bulk to picking.

Granite knows the quantity in the bulk Tracking Entity bin and the quantity in the picking location.

Tracking Entity Basics



In this scenario, each box is a unique Tracking entity with a unique barcode label (Licence plate) printed in Receiving.

When putting away, Scan the location and scan the unique Tracking barcode moving the Tracking barcode to the new Location.

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Picking Tracking Entities



When picking Granite only needs the Tracking Entity (not the from location since it knows where the Tracking Entity is)

Picking is simply Scanning the Picking Slip, then scan the Tracking Entity (Not the product code) and enter the Quantity picked.

In a Pickface like this one, one would replenish the picking bins from bulk Tracking Entities (Unless you are using Batch/Expiry dates)

In certain setups, the Pickface Tracking Entity Barcode can be the same as the stock code. You can then scan the Retail Barcode or Box barcode (MasterItem Alias) and Granite will automatically select the Tracking Entity where the Tracking Entity Barcode is the stock code.