Transfer Direction - In
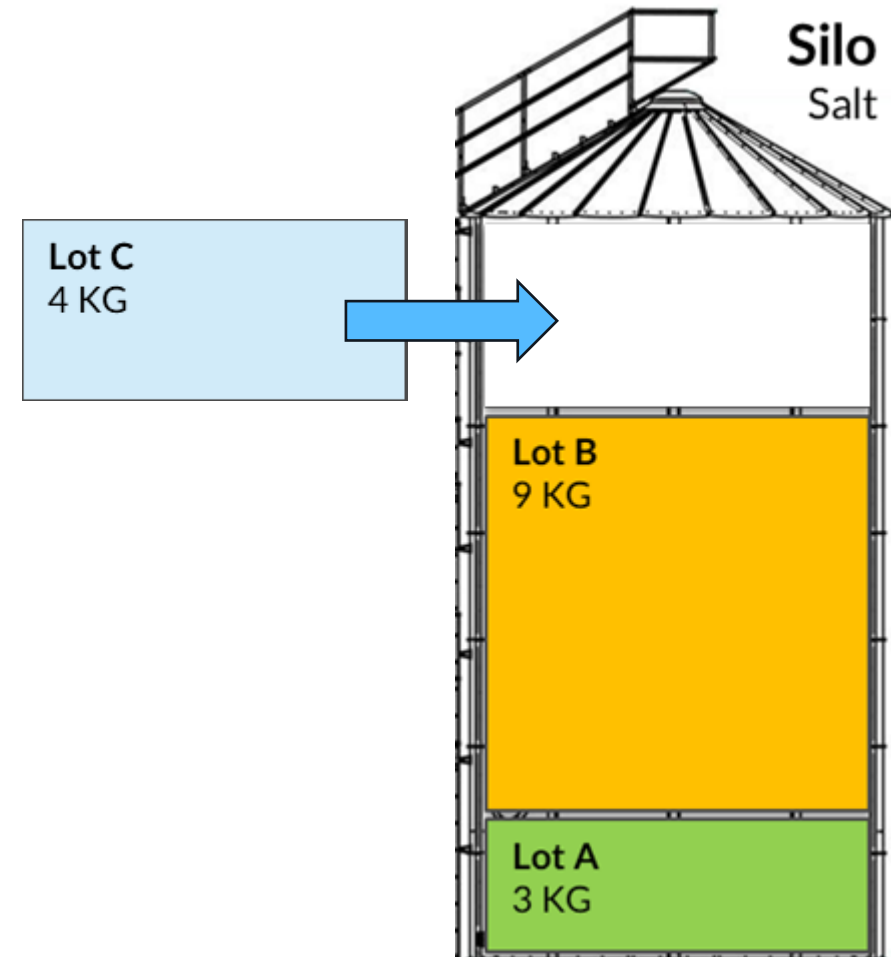
When a Transfer with the Transfer Direction In is used, a System Storage record will be created using the configured Capture Tag information.

This includes:
- Quantity
- Job / Batch
- Product / Material
- Lot / Sub-Lot
- Item / Item Log

A new System Storage record will not be created if one already exists for the given Material, Lot, and Sub-Lot combination. Instead, the Quantity of the existing record will be increased.

If the Item Tag and Item Log Definition properties are configured, an Item Log will be created for the corresponding Item record but will only include an Item ID, Item Log ID, and Location ID.

When a Transfer with the Transfer Direction Out is used, one or more System Storage records may be removed.

The System Storage records are removed in FIFO order and do not consider any of the context information, only the Quantity required. The Quantity value provided is considered to be accurate, even if it does not match with the existing data. Below are two examples of Transfers Out, how they would affect the System Storage Records, and the Transfer Records they would create.

Scenario Background:
A Silo has 3 Storage Layers (shown on the right). Older layers are closer to the bottom.

Scenario A:
A Transfer Out for 5 KGs occurs.
The Lot A record would be completely removed from the System Storage.
The Lot B record would have the quantity reduced by 2 KGs.
One Transfer record would be created for both with 3 and 2 KGs respectively.
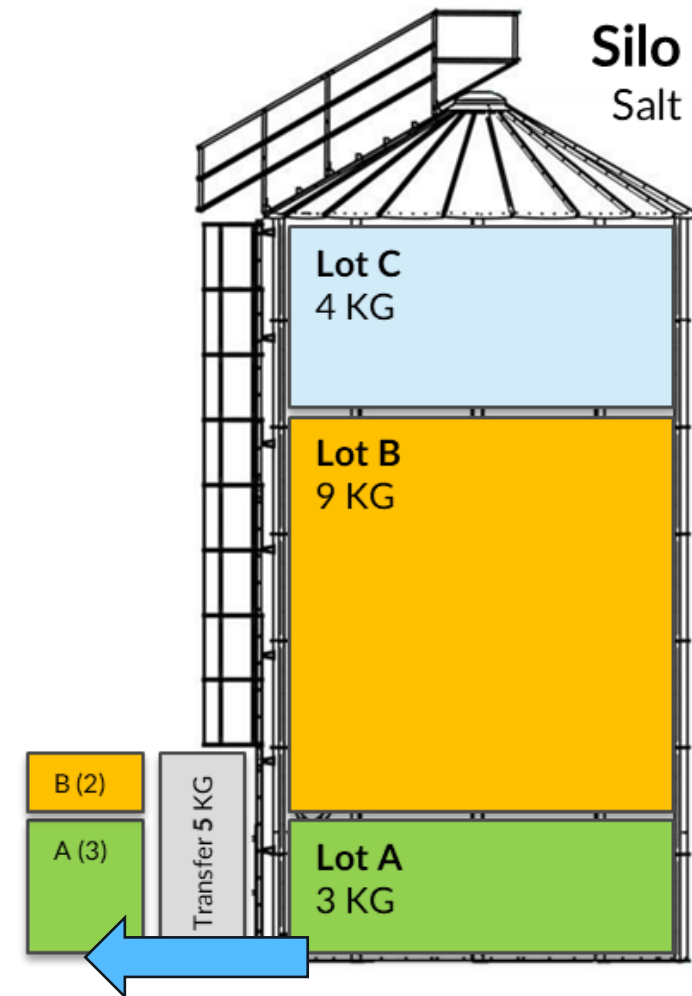
Scenario B:
A Transfer Out for 20 KGs occurs.
All three Lot records would be completely removed from the System Storage.
A Transfer for 3 KGs of Lot A would be created.
A Transfer for 9 KGs of Lot B would be created.
A Transfer for the remaining 8 KGs of Lot C would be created, even though only 4 KGs were listed.

Silo
Salt

Lot C
4 KG

Lot B
9 KG

B (2)

Transfer 5 KG

A (3)

Lot A
3 KG

Transfer Direction - Set

When a Transfer with the Transfer Direction Set is used, a System Storage record will be created using the configured Capture Tag information and all other records will be removed. This effectively resets the System Storage records.

This Capture Tag information includes:
- Quantity
- Job / Batch
- Product / Material
- Lot / Sub-Lot
- Item / Item Log

This is effective for rebalancing a System's Storage records. A record will not be created for any previously existing layers. Instead, a single new record will be created for the Set Transfer, and all other records will be removed.