

# [in-commerce] Issues with product reservation/backorder [5.2.1]

While playing around with product backordering system in In-Commerce I've noticed few issues.

## Issue #1

We're collecting IDs of orders, that were changed in Admin Console to attempt to their reserve items. Unfortunately these IDs are not being reset, when we're done editing resulting in item reservation happening for all previously edited orders, when another order is saved.

To fix this the following variable needs to be removed from session in `OnPreCreate` and `OnEdit` events:

```
$event->Prefix . '_copied_ids' . $this->Application->GetVar('wid')
```

## Issue #2

When item reservation happen we're always adding qty to the `QtyReserved` and `QtyBackordered` columns of the product/product option combination. This way when saving order 5 times you'll get 5x qty reserved/backordered of what you're planning to get.

To fix this we need to create `recalculateInventory(array $product_ids)` method, that will:

1. get all records from `OrderItems` table, where given products are being used
2. calculate `Products.QtyReserved` column as `SUM(OrderItems.QuantityReserved)`
3. calculate `Products.QtyBackordered` column as `SUM(IF(OrderItems.BackorderFlag = 1, OrderItems.QuantityReserved - OrderItems.Quantity, 0))`
4. in all places, where we manipulate with `QtyInStock`, `QtyReserved`, `QtyBackOrdered` columns of product/product order combination we need to use this new method instead

Implementing proposed fix won't be possible until [\[In-Commerce\] Don't mix QtyInStock and QtyReserved fields in product \[5.2.1\]](#) is implemented.

## Related Tasks

**MINC-114** - Cleanup IDs of saved orders before adding/editing new orders

CLOSED

**MINC-116** - Do a full QtyReserved and QtyBackordered recalculation in products

NEW