# MyClubPro Payments – Refactored for Status Alignment(V3)

Task
The payment service has been heavily refactored, rewritten significantly in places, to unify payment statuses and enable synchronization with GoCardless before showing them.

## Functionality affected:

* The Manage Payments (all tabs).
	+ Payments will be synchronized once every 24 hours.
	+ Payments not found on GoCardless will be excluded from future synchronization.
* Fetching, searching for club members (for members and managed payments).
* Fetching payments, searching for payments (for managed payments).
* Webhooks.
	+ Incoming webhook events will now trigger a Payment or Subscription API call to obtain the Payment or Subscription Status.
* Member Assignment to Products (Managed payments)

## Changes:

* Managed Payments.
	+ All Tabs
		- Sorting changed.
		- Payments are combined under user.
		- &debug=true flag added to show extra data for diagnostics
		- All paying tabs now have shows GoCardless sync issue icon.
	+ Assigned Tab.
		- Members who have GoCardless payment records against a product cannot be unassigned, to preserve the record data (bugfix).
		- Members who have Manual payment records against a product cannot be unassigned(bugfix?).
	+ Paid Tab
		- Shows GoCardless sync issue icon.
	+ Paying Tab.
		- A new paying column has been added.

## Benefits\Side Effects

* On Manage Payments.
	+ Refactored with Team Admins in mind.
	+ Sorting tweaked.
* Payment Diagnostics (Super Admin) added.
* Much code migrated to C# MVC.
* Bug fixes, bugs introduced(?).

## Assumptions

* On Managed Payments.
	+ Payments tabs should show archived members. Assignment tabs should not.
	+ Payments should show payments made against a product even if the member is no longer assigned to the product.

## Work still to do Work?

* Frontend Client Dashboard
	+ The payments shown are not synchronized with GoCardless before being shown.
* Back end
	+ Members Area
		- The payments shown are not synchronized with GoCardless before being shown.
* C# MVC Migration

## Historic Bugs

* On Frontend
	+ Payments
		- Products You Have Been Asked to Buy shows assigned product once, never again if purchased (desired behaviour?).
* On Members
	+ Payments
		- Payment Highlighting looks wrong.
* On Managed Products
	+ Metrics are frequently wrong and different to Manage Payments view.
* On Manage Payments
	+ Members Tab
		- Searching for teams won’t always find 2nd+ team if member not registered to team (only assigned to team). See <https://mcpstaging.co.uk/admin/v3/members/member?id=631952>
		- Weird paging. Shows only 90 members. See <https://mcpstaging.co.uk/adminmvc/payment/managepayments?id=44834>
	+ Assigned Tab
		- Last email, last request, date is set to today’s date even when no email is sent.
		- Allowing member to be unassigned when they have a payment. See Jason EmailTest: <https://mcpstaging.co.uk/adminmvc/payment/managepayments?id=186> and https://mcpstaging.co.uk/admin/v3/members/member?id=597111
	+ Paid Tab
		- Reports the same payment twice (PM0073S4SV0906 £40), when one row is a subscription (SB000993AEJ7N6 £10 monthly), See https://mcpstaging.co.uk/adminmvc/payment/managepayments?id=44801.
	+ Paying Tab
		- Payment not showing. Jason EmailTest paid £399. You can see it on their member>payments tab. See <https://mcpstaging.co.uk/adminmvc/payment/managepayments?id=11101> and <https://mcpstaging.co.uk/admin/v3/members/member?id=597111>.
	+ Not Paid Tab
		- Shows archived members (desired behaviour?)
	+ All tabs
		- Sorting looks off on most tabs.
		- When no Member to Product Assignment Records are available tends to take best guess on Payment Type and Product Options based on product. This is often correct but could be incorrect to if there are multiple options.

## Issues

* Synchronisation
	+ Frontend payments not synchronised before being shown.
	+ Member tab payments not synchronised before being shown.
	+ Other places?
* Product Options
	+ Don’t delete these once payments have been made against them, as payment record information will be lost (how much should have been paid).
	+ Don’t change these once payments have been made against them, as paid payments may become unpaid etc.

Introduce non editable state?!

* Members
	+ Don’t delete these if they have payments, as payment record information will be lost.
* Assignment
	+ The existing implementation has got this slightly wrong, is allowing members to be unassigned when it shouldn’t (occasionally) is then deleting the wrong assignments (potentially). Losing links to accurate payment information.