

LifeCheck Technical Note

ID: TN017
Created: 17.January.2025
Updated: 1
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Description: The Allocations Module

The purpose of this document is to detail the process of working with the new Allocation Module which is introduced as part of the LifeCheck V5.8.0 release.

Allocations

The Allocations Module, an optional licensed component, helps plan the allocation of specific assemblies and components to a chassis for scheduled events in the race calendar. Unlike Chassis Builder, it:

- Includes only a subset of assemblies and components.
- Serves as a 'Plan' without moving components onto the chassis—allocations define intended or expected components per event but may change.

Follow the **Configuration Steps** outlined in the following sections before using the Allocations Module.

Defining Races

The first prerequisite is to define the Races for which allocations are to be defined. This should be done using the **Race Calendar**.

The screenshot shows the 'Australian GP - Appointment' window. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar is a toolbar with 'Event', 'Save and Close', 'Delete', 'Spelling', and 'Proofing' buttons. The main area contains the following fields:

- Subject:** Australian GP
- Event Type:** Race (dropdown menu)
- Include Session in Allocations:** ☒
- Circuit:** Melbourne (dropdown menu)
- Session:** Race (dropdown menu)
- Distance:** 120 (text input)
- Laps/Kilometers:** ☒ Laps ☐ Kilometers
- Start time:** Thu 02/13/2025 08:00 (UTC+00:00) Dublin, Edinburgh, Lisbon, L (dropdown menu)
- All day event:** ☒
- End Time:** Mon 02/17/2025 08:30 (UTC+00:00) Dublin, Edinburgh, Lisbon, L (dropdown menu)
- Description:** A large text area for notes.

It is important to ensure that the **Include Session in Allocations** box is checked as this is what releases this event to the Allocations Module. It is recommended to set the event type to **Race** although this is not mandatory, and to ensure the date range matches that of the event to allow filtering to work correctly on the Allocations window.

By specifying an estimated number of laps (or distance) expected to be covered by each chassis running at the event, LifeCheck is able to make forecasts on the expected life of the components set in Allocations and can predict when those components may need to be replaced or serviced.

Setting Chassis to be Included

Over time, the number of chassis defined within LifeCheck will increase however not all chassis will be active and therefore not all chassis will need to be included in Allocations. LifeCheck allows you to select which Chassis to be included in the Allocations under Administration>Chassis Numbers. There are 2 important settings which should be considered when editing the Chassis Attributes (or adding a new Chassis)

The screenshot shows the 'Chassis Details' dialog box. At the top, there are three fields: 'Chassis Name' with the value 'TTL-CAR-001', 'Date of Supply' with a dropdown showing '04/11/2011', and 'Default Template' with a dropdown showing '<None>'. Below these are three checkboxes: 'Chassis CANNOT have Sessions Added' (unchecked), 'Include in the UIIL' (unchecked), and 'Include in Allocations' (checked). A tabbed interface below has three tabs: 'General' (selected), 'Documents', and 'Notes'. The 'General' tab contains several fields: 'Make' (TTL), 'Model' (2011), 'Supplier' (TTL), 'Serial Number' (1001), 'Team' (dropdown showing '<None>'), 'Type' (dropdown showing '<None>'), and 'Default Driver' (dropdown showing '<All>'). Below these are two more checkboxes: 'Restrict Components to those owned by the Team or those not assigned to any Team' (unchecked) and 'Use Odometer Readings' (unchecked). Under 'Use Odometer Readings', there is a 'Current Reading' spinner set to '0'. Below that are two duration fields: 'Duration 1' and 'Duration 2', each with 'Hours' and 'Mins' spinners, all currently set to '0'. At the bottom left is a 'Retire Chassis' checkbox (unchecked). At the bottom right are 'OK' and 'Cancel' buttons.

Include in Allocations

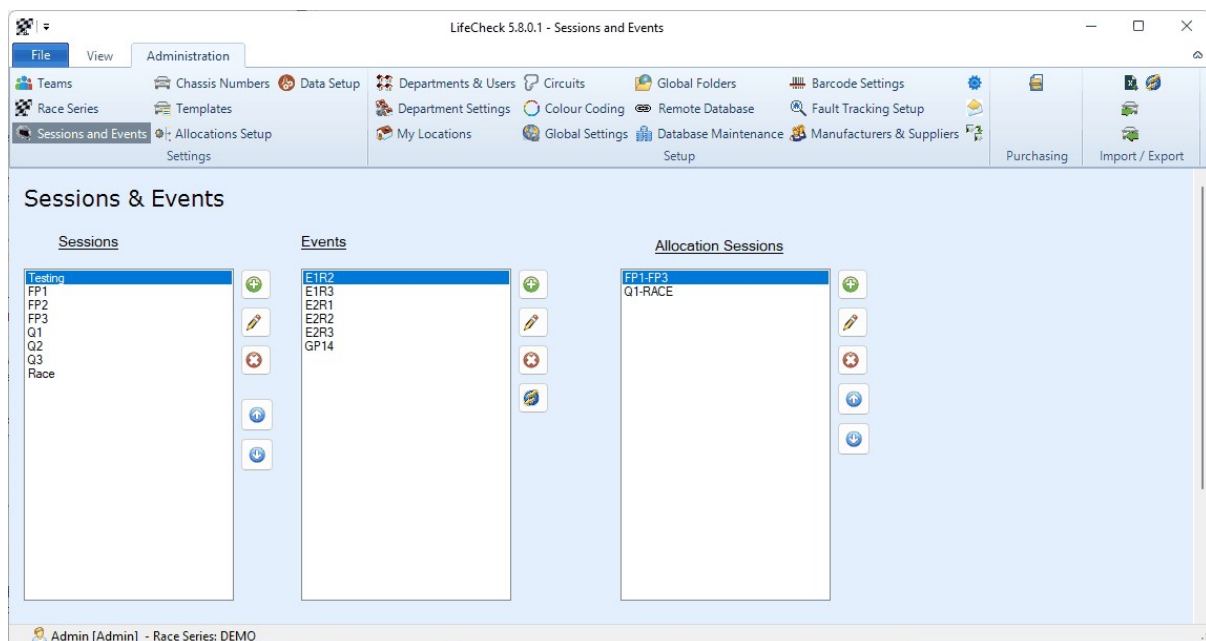
This must be checked for the Chassis to be included when setting allocations and conversely should be un-checked to exclude a chassis from allocations.

Chassis CANNOT have Sessions Added

This setting allows for the creation of a 'Spare' chassis which can have allocations defined for it but will not actually be used in a race. Spares chassis are useful when defining replacement assemblies which be used in the event of an accident - for example a spare rear end may be built up and placed on the spare chassis and moved (within allocations) after an accident.

Allocation Sessions

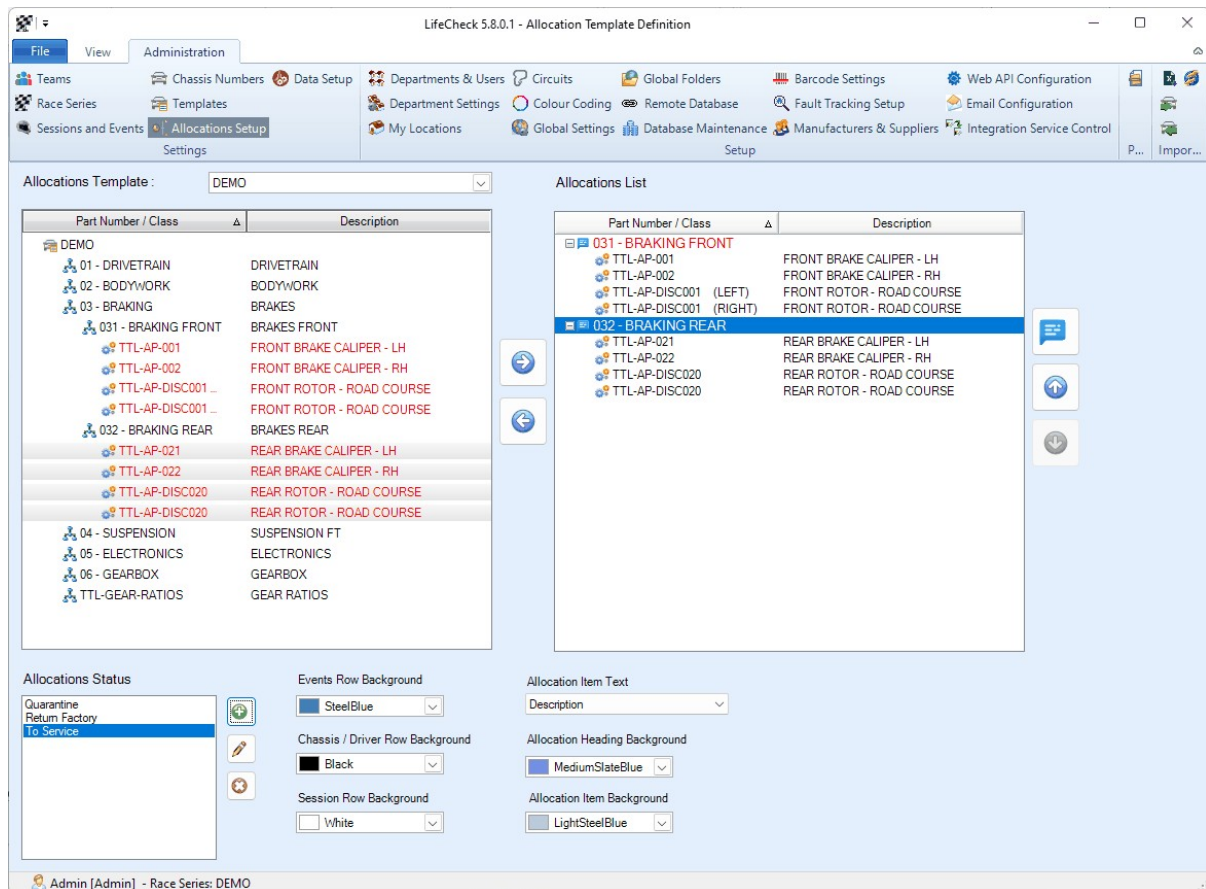
Allocation sessions are not necessarily the same as the sessions defined for a race weekend. For example, allocations may define an allocation session as 'FP1-FP3' if the expectation is that the same assembly / component will be used for all of the Free Practice Sessions. They are defined under **Administration>Sessions and Events**.



1 or more allocation sessions MUST be defined prior to assigning allocations.

Allocation Template

The next step is to select the Build Template from which the items to be allocated should be selected. This is done on **Administration>Allocations Setup** as shown below.



To begin the setup process, first select the Build template which will be used from the list of existing templates.

Note that changing the selected template at a later date will reset the Allocations List and therefore will delete any existing allocations and as such should be done with a great deal of care to avoid losing valuable data.

The Allocation List is comprised of 2 distinct types of item - Headings and Parts. Headings can be added to the bottom of the list by clicking the  button and entering a unique value for the heading. Headings may also be added to the list by selecting a Section in the Left Pane (for example '031 - BRAKING FRONT' and clicking the right arrow button. Note however that parts within the section will not be added automatically.

To add parts to the Allocations List, first select the heading in the right pane within which the parts should appear and then select the required Part(s) in the Left Window and click the right arrow to add them. Parts which are in the Allocations List will be coloured red in the left pane but may not be added elsewhere in the Allocations List.

To remove parts from the Allocations List, select them in the right pane and click the left arrow. Headings may also be removed using the left arrow however note that removing a heading will remove all items beneath the heading also.

Removing a part from the Allocations List will also remove it from any event allocations already defined so again take care doing this to avoid data loss.

Allocation Status

When setting allocations, it is also possible to assign an 'Allocation Status' to a component for a specific event / session. These status's are not related to the existing component status but may be used to reflect such things as actions to be performed on the component or perhaps whether or not it should be returned to the factory or is being sent from the factory to the track. In the above screenshot, 3 statuses have been defined:- **Quarantine**; **Return Factory** and **To Service**. When defined, each status will also have a colour coding and a single character identifier set for them so for example Quarantined components may be coloured red and have an identifier of 'Q'. This will be displayed with the allocated component details.

Other Settings

Additional settings may also be specified to set the colour scheme to be used in the Allocations window. The most important setting however is **Allocation Item Text** as this defines how the allocated component will be shown in the Allocations window. The default is to display just the Part Description however this may be changed to show just the Part Number or both the Part Number and Description

The Allocations Window

Once the initial setup has been performed, you can now move on to actually defining the Allocation of Components for each event and session defined within the Race Calendar. This is done by selecting **Allocations** from the main menu to display a screen similar to :-

Part	TTL-CAR-001	TTL-CAR-002	SPARE#1	TTL-CAR-001	TTL-CAR-002
	FP1-FP3	Q1-RACE	FP1-FP3	Q1-RACE	FP1-FP3
031 - BRAKING FRONT	<AB>	<AB>	<AB>	<AB>	<AB>
TTL-AP-001 FRONT BRAKE CALIPER - LH	---	---	---	---	---
TTL-AP-002 FRONT BRAKE CALIPER - RH	---	---	---	---	---
TTL-AP-010001 FRONT ROTOR - ROAD COURSE (LEFT)	---	---	---	---	---
TTL-AP-010001 FRONT ROTOR - ROAD COURSE (RIGHT)	---	---	---	---	---
032 - BRAKING REAR	<AB>	<AB>	<AB>	<AB>	<AB>
TTL-AP-001 REAR BRAKE CALIPER - LH	---	---	---	---	---
TTL-AP-002 REAR BRAKE CALIPER - RH	---	---	---	---	---
TTL-AP-010001 REAR ROTOR - ROAD COURSE	---	---	---	---	---

Part Number	Description	Life Code	Current Location	Distance Run	Life Left (Race)	Crack Testing/Race To Next	Service/Race To Next
TTL-AP-001	FRONT BRAKE CALIPER - LH	L01	Admin's Stores 1	1943.91	1059.14	1000.00	1000.00
TTL-AP-001	FRONT BRAKE CALIPER - LH	L03	Admin's Stores 1	2393.75	805.25	1000.00	1000.00
TTL-AP-001	FRONT BRAKE CALIPER - LH	L05	TTL-CAR-002	973.73	2026.27	1000.00	1000.00
TTL-AP-001	FRONT BRAKE CALIPER - LH	L07	Admin's Stores 1	44.60	2055.40	1000.00	1000.00
TTL-AP-001	FRONT BRAKE CALIPER - LH	L08	Admin's Stores 1	0.00	2000.00	1000.00	1000.00

The content of this screen can be configured to limit the events and chassis displayed as well as changing the way the mileages and colour coding are calculated.

Under **Show** select between displaying events between the specified dates, Last Event and Next Event. Note that in each case the start date of the event is used to determine whether the event should be displayed. When 'Last Event' is selected, LifeCheck will include any event which is currently in progress.

You may also select which chassis to display or to include all chassis (which are defined to be included in the Allocations).

Colour Code on Life

When checked, this setting will cause LifeCheck to colour code the cells containing allocated components based on their Life values (Distance Remaining).

Colour Code on Service

When checked, this setting will cause LifeCheck to colour code the cells containing allocated components based on the WORST check detected - for example if a Service and a Crack Test have been defined for the displayed component, LifeCheck will colour code based on which check is nearest its limit.

For all allocated components, LifeCheck will always display in the cell, the distance remaining (if lified) and the distance to the next periodic check or how far overdue the check is. Additional information may be displayed via a popup 'tooltip' by hovering over the cell.

Allocating Components

The Allocations Window is used to define the components which are to be allocated to a chassis for each event and session defined within the selected date period. In addition, as well as the primary allocation, LifeCheck also supports option allocations, that is components which may optionally be used in place of the allocated component.

Allocations may be defined for each component included in the Allocation Template on an event / session basis.

The Toolbar

Most operations within the Allocations Window work using right-click context menus however it is also possible to perform some functions using the allocations Toolbar.



Clear Allocations

This option is only available if a cell in the Allocations Window has been selected. It allows All or selected allocation entries to be deleted and as such care should be taken to ensure that allocations data is not accidentally deleted as it cannot be recovered. On selection of this button a popup window will be displayed which allows the scope of the items to be deleted to be selected from one of

- All Allocations for this Chassis
- All Allocations for this Chassis / Session
- All Allocations for this Chassis / Event
- All Allocations for this Event
- All Displayed Allocations



Fill from Chassis Builder

This option will allow the current display to be populated from an existing Chassis Build. This function will only work where a single chassis has been selected. Please note that ALL existing allocations for the selected chassis will first be deleted and then re-populated from the current build of the chassis as found in Chassis Builder. This is a quick and easy way of getting started with LifeCheck as it will select the appropriate components from the chassis build although be aware that where there are multiple instances of a component in the build, LifeCheck will select them in order.



Fill Across for Session

This option copies the current selected allocation to all cells for this Chassis and Session for any displayed Event.



Fill Across for Chassis

This option copies the current selected allocation to all cells for this Chassis for any displayed Event / Session



Select Allocation

This option will display a window of components which may be selected for the current allocation.



Select Option

This option will display a window of components which may be selected for the current option allocation.



Confirm Allocation

This option can only be used when displaying the 'Last Event' and is used to confirm individual or groups of allocations to mark the allocation as having been fitted. Any changes to the allocation should be done prior to the confirmation as this will effectively 'lock out' changes to the allocations for the selected event. To confirm a group of components allocated, right-click on the heading line for the group and select 'Confirm allocation' from the right-click context menu. Confirmed allocations will be flagged with a green tick in the corner of the cell.

Allocating a Component

Allocating a component for a specific Event / Chassis / Session may be done in a number of ways including loading the allocations directly from an existing chassis build however in most cases you will be selecting the component to be allocated from a list of possible matches.

The first step is to select the cell for the required Event / Chassis / Session. At this point the Available Components window at the base of the display will be updated with a list of components which may be selected. This is a standard LifeCheck Component display window meaning you have the ability to select what columns are displayed and perform other operations such as double-clicking to display the properties of the component. You may also right click and choose the Select Component option which will set the selected component as the allocation.

You may also right click directly on the allocation cell and from the display context menu choose Select Allocation or Select Option as required. The Select Allocation option may be clicked to display a full

list of components (as shown in the Available Components window) or alternatively a sub-menu is available to allow the component to be selected using its life code.

Part	TTL-CAR-001			
	FP1-FP3		Q1-RACE	
031 - BRAKING FRONT	<All>		<All>	
TTL-AP-001 FRONT BRAKE CALIPER - LH	L05 Distance Left: 2026 To Next: 26		---	---
*** OPTION 1 ***	L08 Distance Left: 3000 To Next: 1000 Distance Left: 3000 To Next: 1000			
TTL-AP-002 FRONT BRAKE CALIPER - RH	---		---	---
TTL-AP-DISC001 (LEFT) FRONT ROTOR - ROAD COURSE (LEFT)	---		---	---
TTL-AP-DISC001 (RIGHT) FRONT ROTOR - ROAD COURSE (RIGHT)	---		---	---

In the above partial screen shot, the component with life code L05 has been selected as the primary allocation with L08 as an option. LifeCheck supports multiple options as required. The allocation of this component can be propagated for other events and/or sessions either by selecting the appropriate button from the toolbar or by right-clicking and selecting **Fill Across for Session** or **Fill Across for Chassis**.

An allocation may also be dragged to another cell noting that if it is dropped on to a cell which already has an allocation, the existing allocation will be replaced with the dragged component. If an allocation is dragged to a child option or vice-versa, the allocation and option will be swapped.

Part	Australian GP [14/03/2025 - 16/03/2025] 546.00								China GP [21/03/2025 - 23/03/2025] 701.76							
	TTL-CAR-001				TTL-CAR-002				TTL-CAR-001				TTL-CAR-002			
	FP1-FP3		Q1-RACE		FP1-FP3		Q1-RACE		FP1-FP3		Q1-RACE		FP1-FP3		Q1-RACE	
031 - BRAKING FRONT	<All>		<All>		<All>		<All>		<All>		<All>		<All>		<All>	
TTL-AP-001 FRONT BRAKE CALIPER - LH	L12 Distance Left: 2302 To Next: 202	---	L12 Distance Left: 2302 To Next: 202	---	L05 Distance Left: 2026 To Next: 26	---	L05 Distance Left: 2026 To Next: 26	---	L12 Distance Left: 1110 To Next: 259	---	L12 Distance Left: 1110 To Next: 259	---	L05 Distance Left: 534 To Next: 1055	---	L05 Distance Left: 534 To Next: 1055	---
TTL-AP-002 FRONT BRAKE CALIPER - RH	L12 Distance Left: 4802 To Next: 502	---	L12 Distance Left: 4802 To Next: 502	---	L05 Distance Left: 4024 To Next: 24	---	L05 Distance Left: 4024 To Next: 24	---	L12 Distance Left: 2710 To Next: 358	---	L12 Distance Left: 2710 To Next: 358	---	L05 Distance Left: 2332 To Next: 1052	---	L05 Distance Left: 2332 To Next: 1052	---
TTL-AP-DISC001 (LEFT) FRONT ROTOR - ROAD COURSE (LEFT)	L14 Distance Left: 2500 To Next: 500	---	L14 Distance Left: 2500 To Next: 500	---	L05 Distance Left: 1734 To Next: 500	---	L05 Distance Left: 1734 To Next: 500	---	L14 Distance Left: 1405 To Next: 532	---	L14 Distance Left: 1405 To Next: 532	---	L05 Distance Left: 642 To Next: 532	---	L05 Distance Left: 642 To Next: 532	---
TTL-AP-DISC001 (RIGHT) FRONT ROTOR - ROAD COURSE (RIGHT)	L14 Distance Left: 2500 To Next: 500	---	L14 Distance Left: 2500 To Next: 500	---	L05 Distance Left: 1734 To Next: 500	---	L05 Distance Left: 1734 To Next: 500	---	L14 Distance Left: 125 To Next: 1504	---	L14 Distance Left: 125 To Next: 1504	---	L05 Distance Left: 449 To Next: 1504	---	L05 Distance Left: 449 To Next: 1504	---

The above screen shot shows a complete allocation for 2 chassis and 2 events - note the changes in the **Distance Left** and the colour coding of the cells. The display will take account of any distance defined for the event in the Race Calendar and allows a quick at-a-glance visualization of the status of the component based on its projected usage. It can be seen that all of the components shown will need to be serviced prior to the second event!

This service requirement can also be added to the Allocations Screen by right-clicking the cell where the service should be performed (in this case **Q1-Race**) and selecting the required status from the sub-menu displayed for the **Status** option.

Part		TTL-CAR-001			
		FP1-FP3		Q1-RACE	
031 - BRAKING FRONT		<All>		<All>	
	TTL-AP-001 FRONT BRAKE CALIPER - LH	L12 Distance Left: 2802 To Next: 802	---	L12 Distance Left: 2802 To Next: 802	S
	TTL-AP-002 FRONT BRAKE CALIPER - RH	L13 Distance Left: 4802 To Next: 802	---	L13 Distance Left: 4802 To Next: 802	S
	TTL-AP-DISC001 (LEFT) FRONT ROTOR - ROAD COURSE (LEFT)	L14 Distance Left: 2500 To Next: 500	---	L14 Distance Left: 2500 To Next: 500	S
	TTL-AP-DISC001 (RIGHT) FRONT ROTOR - ROAD COURSE (RIGHT)	L14 Distance Left: 2500 To Next: 500	---	L14 Distance Left: 2500 To Next: 500	S

Refreshing the screen will add a marker and colour code to the Status column to highlight actions which will need to be performed. It is also possible to set a note for the allocation which will be displayed in the bottom right of the window when the allocation is selected.

Exporting the Allocations

The Displayed Allocations may also be exported to Microsoft Excel either by clicking the **Export to Excel** button or by right-clicking and selecting the **Export Data to Excel** option from the menu displayed.