

# Space Allocations Significant Issues

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Below is a list of significant issues you may run into while using Space Allocations

## Space Allocations Manager Issues

- The Space Allocation Manager when opened for the first time has a visual bug; it hides part of the manager as shown below. You will see the graphical glitch that appears as a black rectangle.
  - Workaround: Move the Space Allocation manager so that the whole of it is seen, next time when you re-open it nothing is hidden.
- The menu options under the create button in the Space Allocation Manager do not work properly and should not be used.

## Space Allocations Modeling Issues

- Saddle connections cannot be made in 2D wireframe mode.
  - Workaround: Use a visual style other than 2D Wireframe when creating saddle connections.
- Using the BREAK command on space allocations doesn't work.
  - Workaround: Use the command SCBAP instead.
- EXPLODE on space allocation is currently unsupported.
- When Resizing connected space allocations they stop at elbows and crosses and do not let you to resize further.
- Deleting Space Allocation Connections and Undoing causes a crash
- Deleting the connections between ends and connecting them back by using "SCSpallConnect" can crash Shipconstructor if the same points are selected for making connection.
- Routing space allocations along a polyline crashes ShipConstructor.

- Space Allocations appear briefly in arrangement drawings. They disappear once the arrangement drawing is updated.
- If a Space Allocation straight is jugged downwards and XRotated to any angle, it crashes ShipConstructor.

## Space Allocations Usage Guide

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SPACE ALLOCATIONS are currently not recommended for production use; however this usage guide will give you a basic overview and some guidelines you can follow if you wish to try the module out for testing purposes. Space Allocations are user-defined volumes that are designed to reserve space inside a model for various specific applications. For example, Space Allocations could be used to demarcate room in a model for cableways between electrical equipment. They are 'smart' volumes that can be easily modified to accommodate changes in the ship model, and can be used to detect and avoid potential interferences. Space Allocations are not tied to drawings: instead *Load Strategies* are employed, allowing users to create, view, and modify Space Allocations in any model drawing. **For this release, however, it is recommended you only create Space Allocations inside Space Allocation drawings.**

### SPACE ALLOCATION Prerequisites

Before modeling SPACE ALLOCATIONS you need to create at least one Space Allocation Group, as well as a Space Allocation *Naming Convention* and a Space Allocation drawing. A *group* is a collection of SPACE ALLOCATION parts that together fulfill a specific purpose (for example, the 'heating' group or the 'cableway' group).

#### To create a group

1. Open Manager 'SCCATALOG'
2. Choose **Space Allocation > Group** to open the **Group Manager**.
3. Click **New**.
4. Enter a name for the new group.
5. Set the group color.
6. Click **OK** to save and close the **Group Manager**.

### To create an SPACE ALLOCATION drawing

1. Choose **ShipConstructor > Navigator** to open **Navigator**.
2. Select **SPACE ALLOCATION** in the component list.
3. Select the **SPACE ALLOCATION** folder in the drawing list.
4. Click **New SPACE ALLOCATION**.

The **New Drawing** window appears.

5. Enter a **File name** for the drawing.

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**Note:** To open the new drawing, check the **Open new drawing** check box.

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6. Click **OK**.

### Set the Current Group

A *current group* must be set in a *SPACE ALLOCATION drawing* before you can begin modeling.

#### To set the current Group

1. If no space allocations exist within a drawing, the first time one is created the **Group Selection Dialog** will appear.
2. Select the group you want to make current.
3. Click **OK** to close the **Group Selection Dialog**.

You can change your current group at any time by choosing **SC SPACE ALLOCATION > Change Space Allocation Group**. **It is recommended for this release that you only use one group for each space allocation drawing.**

### Modeling Space Allocations

You create a Space Allocation model by inserting space allocations into drawings. Routing a space allocation involves providing geometric input that determines where the space allocation is located and how it is oriented. You will provide geometric input by clicking points in the model and using the command line options. Adjacent Space Allocations can be logically associated using *connections*. Existing space allocations can be modified to accommodate modeling changes or to resolve interferences.

### Load Strategies

Load Strategies allow users to specify which Space Allocations are shown in a drawing. By default, when a Space Allocation is created in a drawing a Load Strategy is created for that space allocation's *group*. When a drawing with a Group Load Strategy is opened, all space allocations belonging to that group will appear in the drawing. This allows multiple users to stay synchronized when working on the same group, and allows a single user to quickly see all of a group's space allocations, regardless of which drawing or unit they were modeled in. Load Strategies can also be defined by *volume*, allowing users to rapidly view the spaces that have been reserved in a given section of the model. For example, a Volume

Load Strategy could be used to find an unreserved space between two frames, allowing equipment to be placed such that it will not interfere with planned ventilation ducts.

### Checking In/Out Space Allocations

To modify an existing space allocation it must be *checked out* to a drawing. This guarantees that only one user can modify a particular space allocation at one time, avoiding conflicting edits. To check out a space allocation, either right click on it and choose the '**Check Out**' option or use the '**SCSPALLCHECKOUT**' command. Newly created space allocations are automatically checked out to the drawing they were created in. When you are finished modifying an allocation you can either right click on it a choose '**Check In**' or use the '**SCSPALLCHECKOUT**' command. Alternately, when a drawing is closed any space allocations checked out to that drawing will be checked back in, freeing them to be modified by other users.