

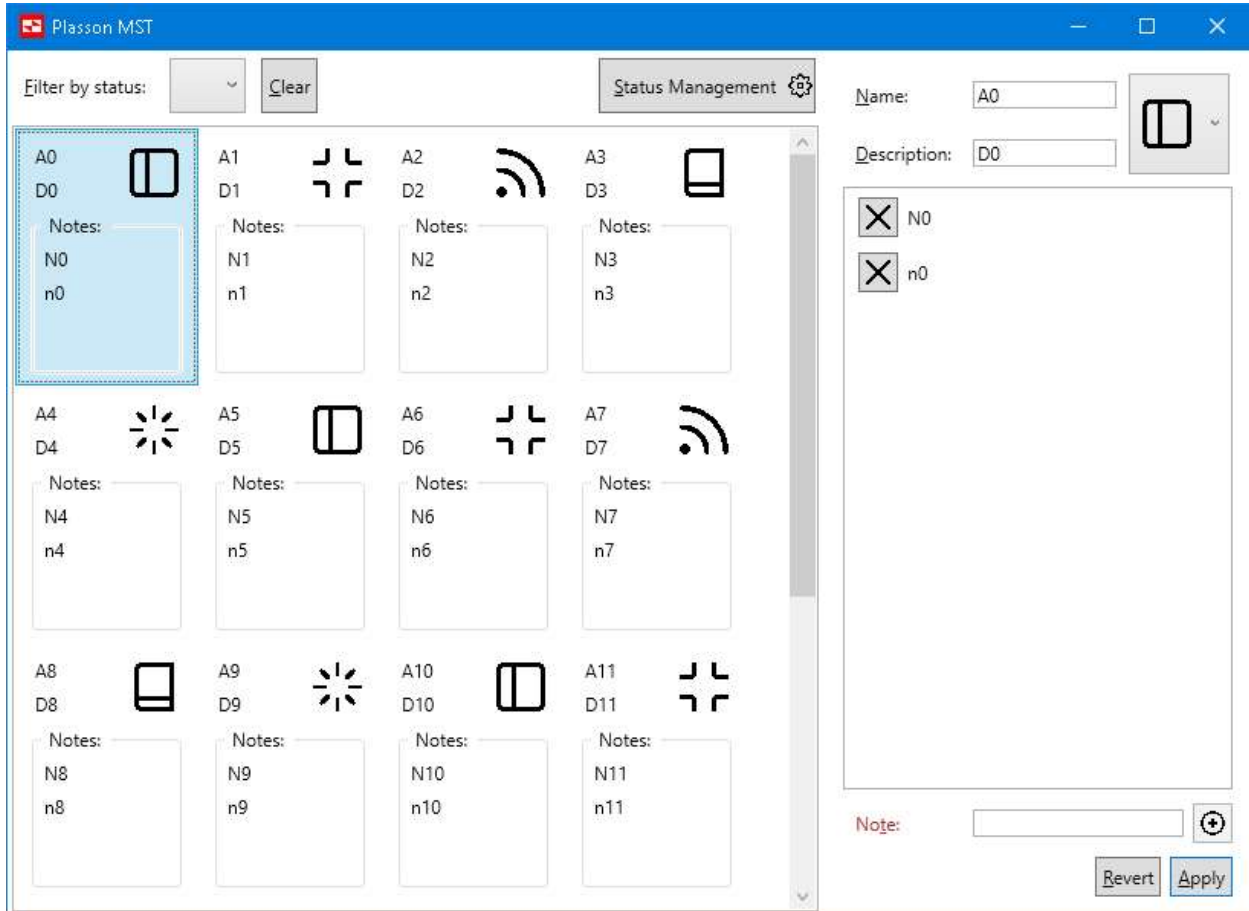


# Plasson's Manufacturing Status Tracker

## User Guide

## Features

- Manage manufacturing machines
- See only the machines with the desired status
- Configure available manufacturing statuses from a selection of 287 available statuses

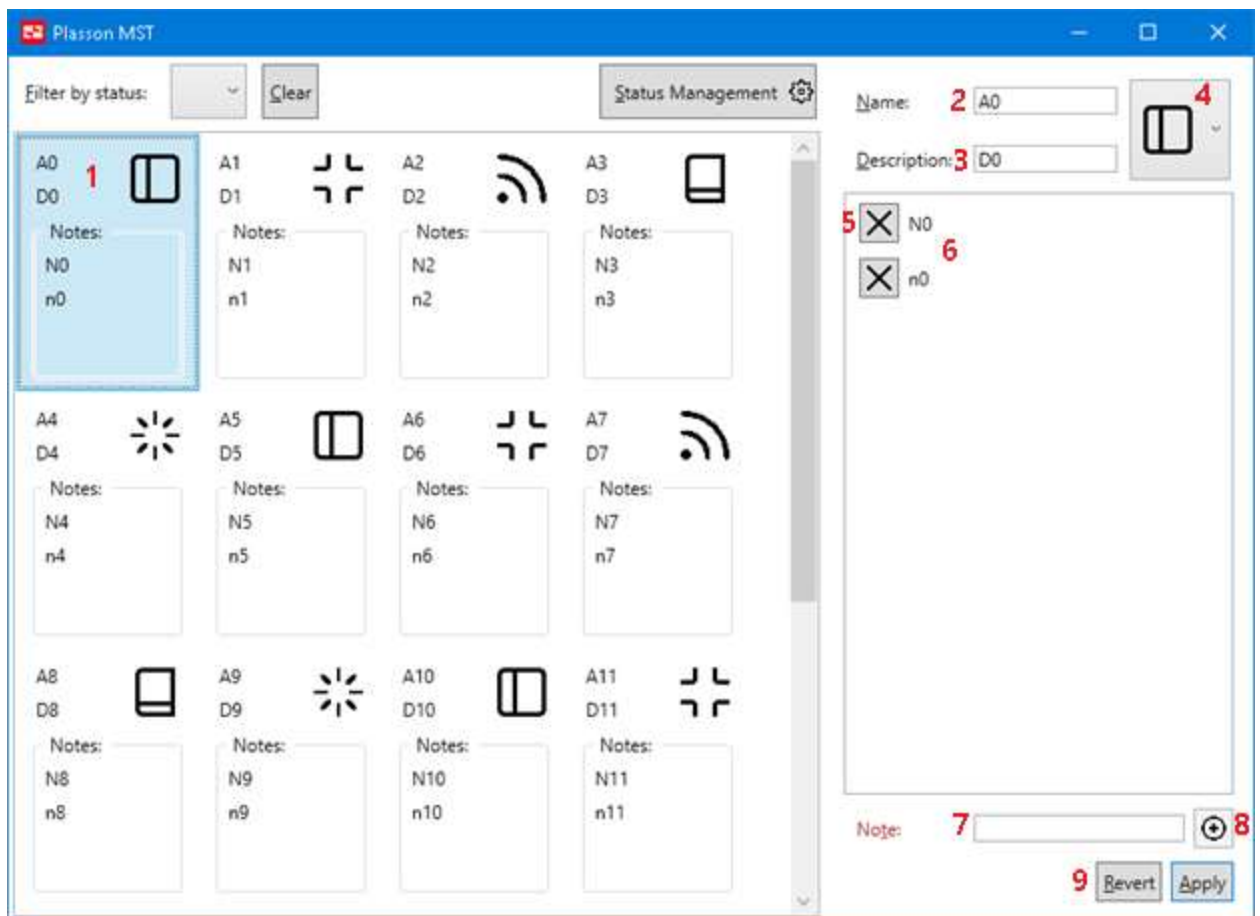


The screenshot displays the Plasson MST software interface. At the top, there is a blue header bar with the Plasson logo and the text "Plasson MST". Below the header, the interface is divided into several sections:

- Filter by status:** A dropdown menu and a "Clear" button.
- Status Management:** A button with a gear icon.
- Machine Status Grid:** A grid of 12 cards, each representing a machine status. The cards are arranged in 3 rows and 4 columns. Each card has a label (e.g., A0, D0), a status icon, and a "Notes" section with a text input field. The first card (A0, D0) is highlighted with a blue border.
- Configuration Panel:** Located on the right side, it includes:
  - Name:** A text input field with "A0" entered.
  - Description:** A text input field with "D0" entered.
  - Selection List:** A list of items with checkboxes, including "N0" and "n0".
  - Note:** A text input field with a "+" icon.
  - Buttons:** "Revert" and "Apply" buttons.

### Manufacturing machine configuration:

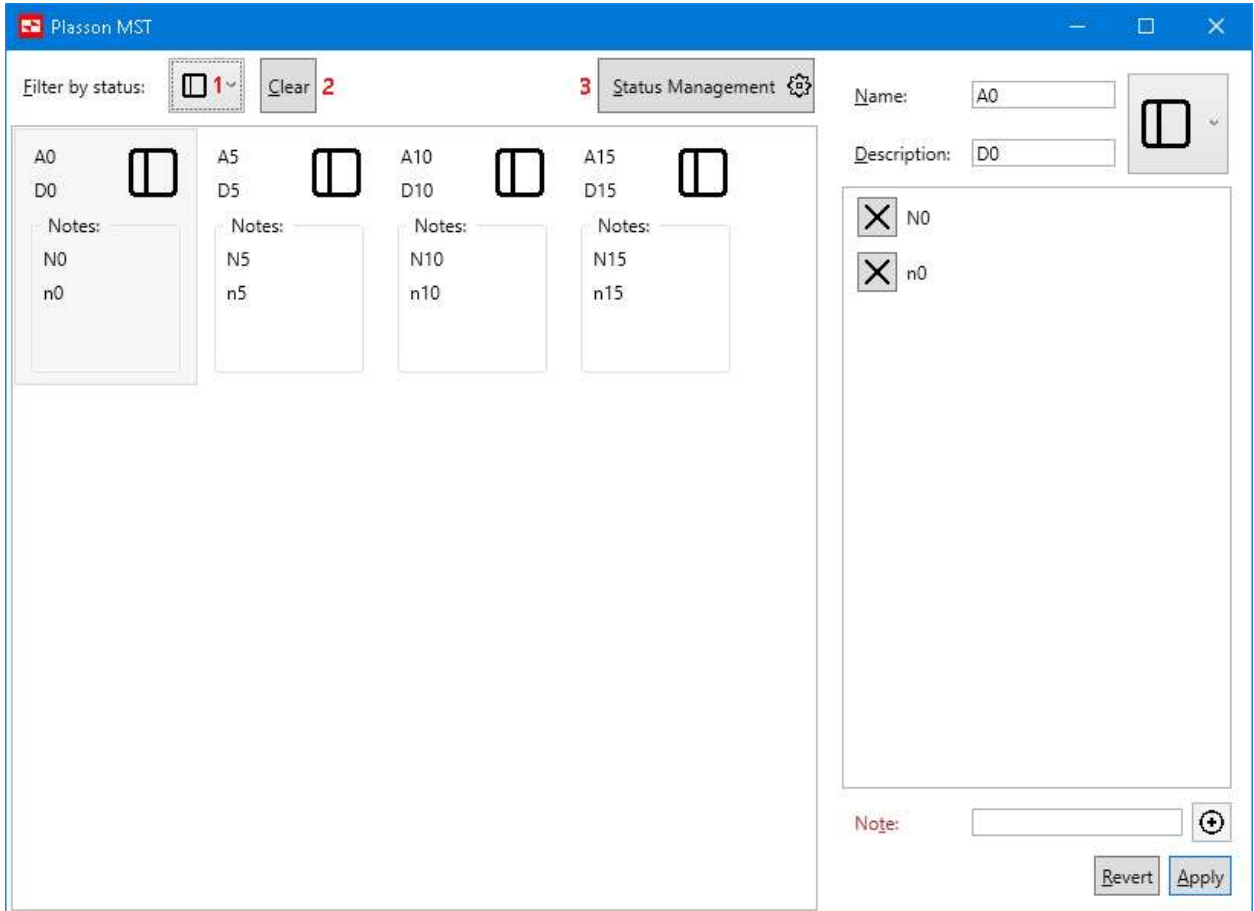
1. Select a machine from the list on the left and the machine data will populate the configuration panel on the right  
Attempting to select different machine while there are unsaved changes in the current machine will cause a confirmation prompt.
2. Edit the machine name  
Machine name must be non-empty and non-whitespace string
3. Edit the machine description
4. Select the desired status
5. Remove notes if desired by pressing on the X button next to it
6. Select a note in the notes list to populate the note text box with its value
7. Type a note in the note text box
8. Add the typed note to the list  
Duplicate and whitespace notes are allowed; empty notes are not.
9. Revert or Apply the changes  
Changes will take effect immediately after pressing either of those buttons.



The screenshot displays the Plasson MST software interface. On the left, a grid of 12 machine configurations (A0-D0 to A11-D11) is shown. Each configuration includes a status icon and a list of notes. The first configuration (A0-D0) is highlighted with a blue border and a red '1' next to it. On the right, a detailed configuration panel for the selected machine (A0-D0) is visible. It includes fields for Name (A0), Description (D0), and a list of notes (N0, n0). The panel also features a 'Status Management' button, a 'Filter by status' dropdown, and a 'Clear' button. At the bottom right, there are 'Revert' and 'Apply' buttons, along with a 'Note' field and a '+' button.

## Manufacturing machine statuses:

1. Select the desired status to filter by
2. Clear the filter in order to see all the machines
3. Open the status configuration screen



The screenshot shows the 'Plasson MST' application window. At the top, there is a 'Filter by status:' section with a dropdown menu showing '1' and a 'Clear' button labeled '2'. To the right is a 'Status Management' button labeled '3' with a gear icon. Below the filter section, there are four columns of machine status cards. Each card displays a status code (A0, D0, N0, n0) and a corresponding icon. To the right of the cards, there is a 'Name:' field with 'A0' and a 'Description:' field with 'D0'. Below these fields, there is a list of status codes with checkboxes: 'N0' and 'n0'. At the bottom right, there is a 'Note:' field and two buttons: 'Revert' and 'Apply'.

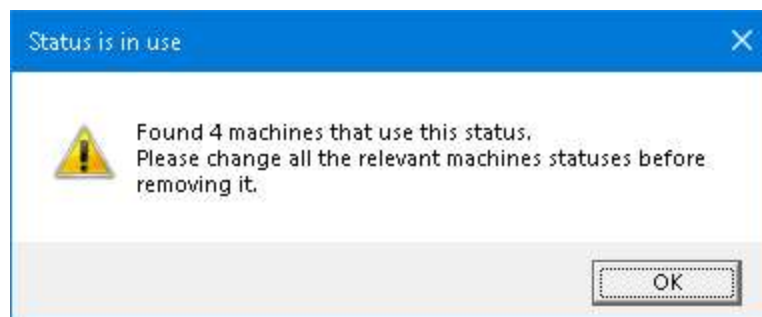
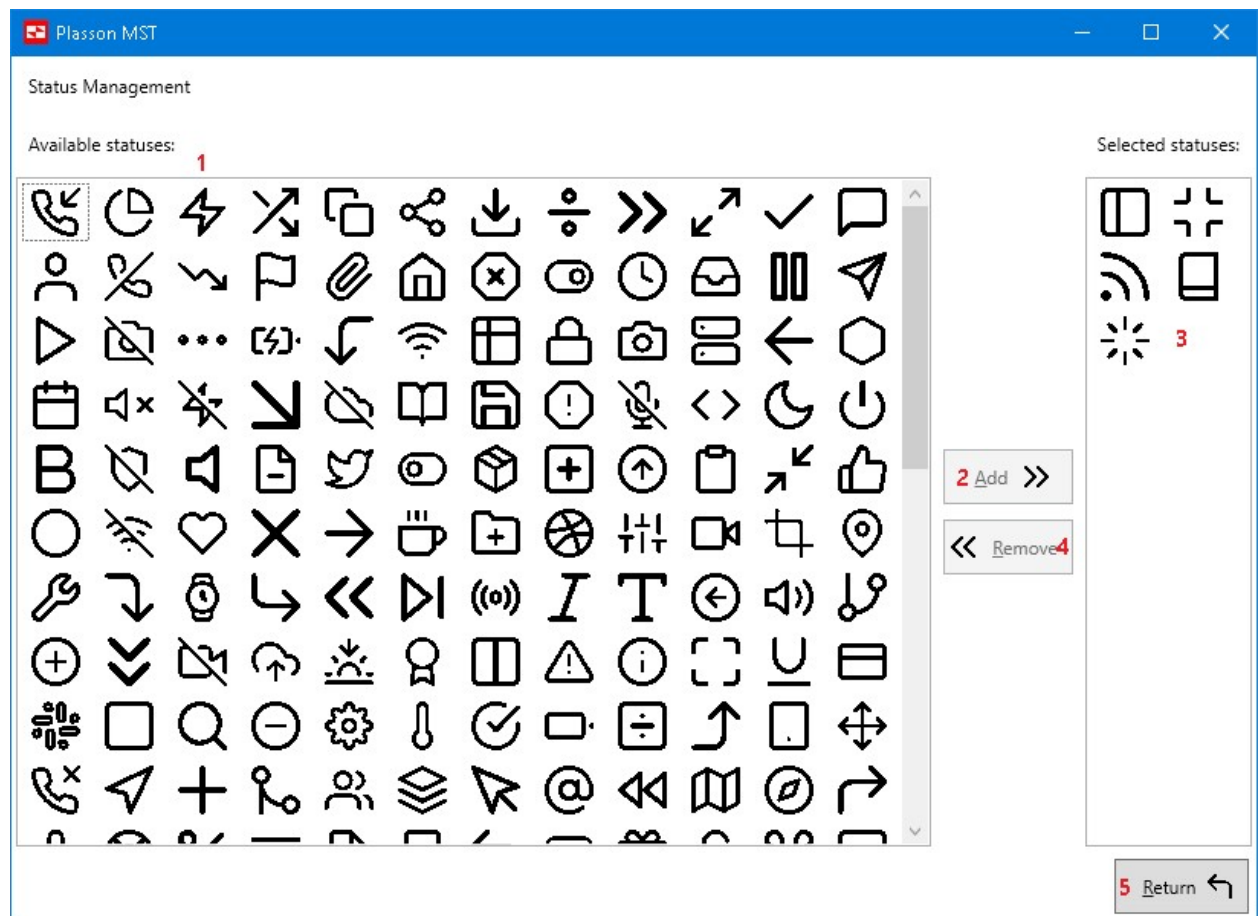
## Status management screen:

1. Select the desired status from the list on the left
2. Add the status to the available statuses on the right
3. Select one of the available statuses from the list on the right
4. Remove the available status

Statuses cannot be removed if they are being used by any machine.

In order to remove used statuses the user is expected to switch all relevant machines to a different status first.

5. Return to the main manufacturing machines tracker screen



### Known issues and limitations

- Data is not saved between application runs  
Real application will require DB usage to store the machines and statuses information
- Add\remove machines functionality was not implemented as it was not specified
- In real environment statuses will have a user-friendly string representation as well as the icon.  
The status classes were designed with this in-mind but due to limited time it was decided that the statuses will be represented in the UI by the status icon alone.
- Status configuration applies the changes automatically.
- Machine configuration requires the user to manually apply the changes made to the machine.
- The icons list is not being virtualized which can cause performance issues.  
In live product this list will be virtualized.
- There is a known binding-leak in IconResource from OperationalStatusModel which wasn't addressed due to time constraints