Mapping

Provides order level fulfillment and tracking

Overview

Some manufacturing industries such as semiconductor, PCB and SMT, require that the system keeps track of units inside a two-dimensional surface. In some cases, the surface is divided into uniform regular rectangles in the form of a matrix while in other cases the shape, position, and orientation of each unit within the two-dimensional space can be very different.

The Mapping module provides support for two-dimensional structures that can be linked and integrated with material tracking for the purposes of tracking quantities, defects, or other sub-material level properties.

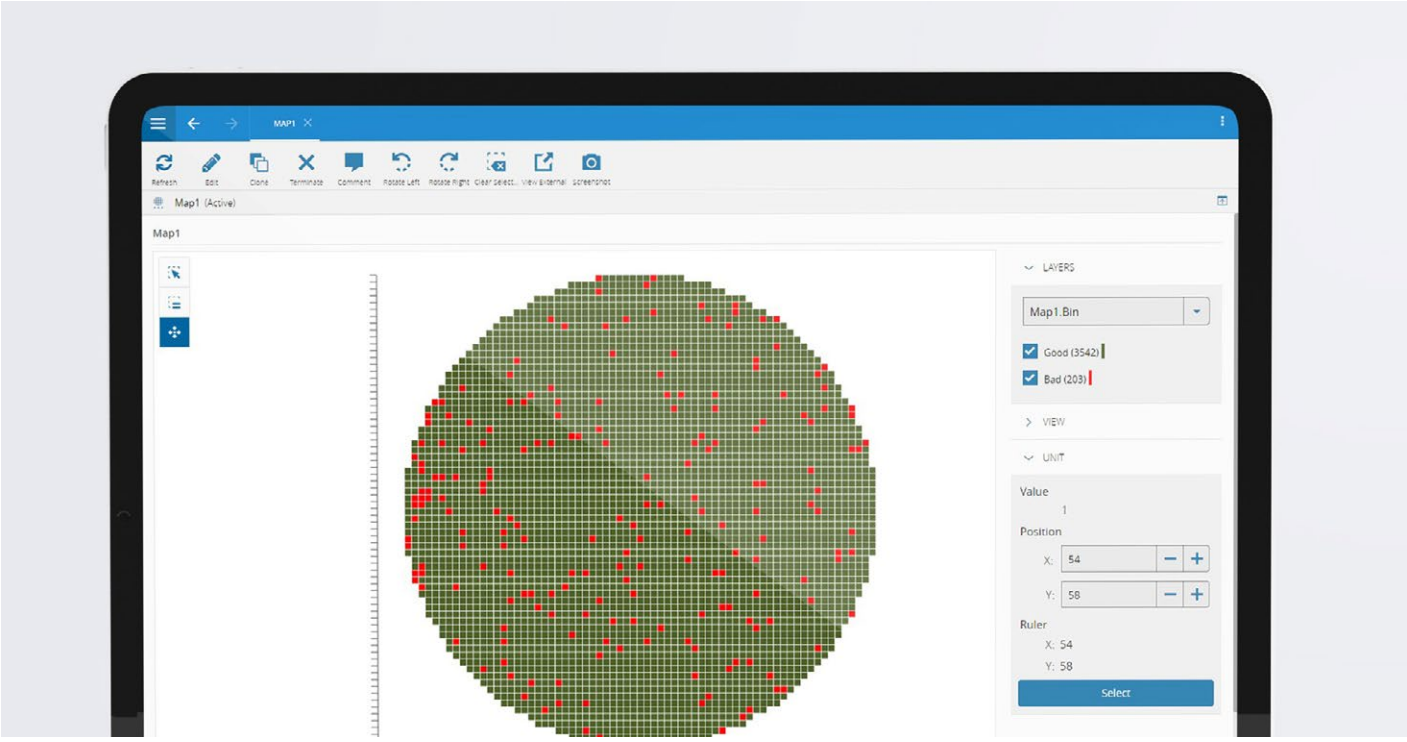

Figure 1 Map viewer example (regular map)

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Key Features

- Support for multiple Map Definitions that act as templates from which maps can be created
- Support for regular and irregular layout (with different shapes, sizes and orientations) map structures
- Support for multiple layers per map and multiple maps per material
- Support for map regions
- Native support for SEMI G85 and E142 map structures
- Capability to convert E142 bin codes when downloading to or uploading from equipment
- Interactive visualization of maps, including flip, zoom, rotation, and filters
- Support for editing E142 bin code maps
- Support for automatic merge of multiple maps into a master map
- Support for merged maps, in which a master map aggregates the results of multiple individual maps
- Native integration with Material Tracking so that when recording losses in the map, the Material quantity is automatically synchronized
- Capability to define and apply Substrate Masks
- Capability to search for a E142 map based on Substrate, Carrier, Lot, Alias or Device
- E142 die-level forward and backward traceability
- E142 die-level bin code history

Benefits

- Spatial tracking of units, including their defects
- Die-level traceability
- Automatic material quantity synchronization with the map good units
- Die-level traceability

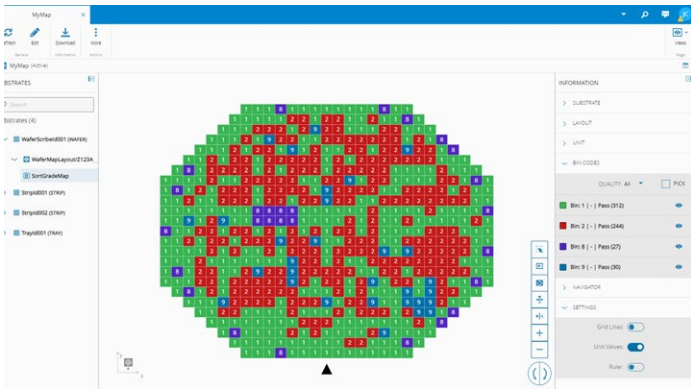

Figure 2 Map viewer example (E142 map)

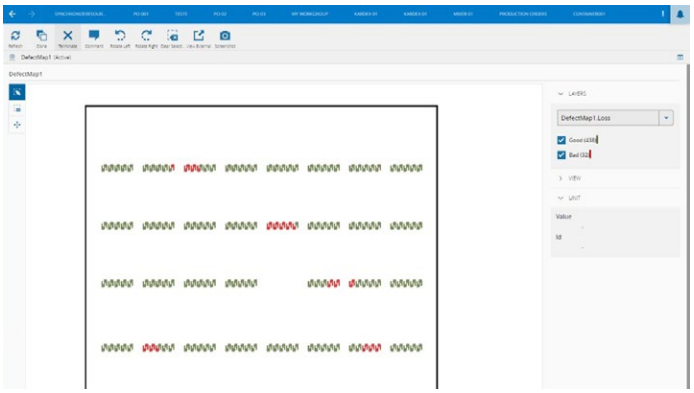

Figure 3 Map viewer example (irregular map)

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