Initial location of the node generator determines if sensors start moving from the corner of the given target area, from the center, or from a random position. In addition, based on the initial position, mobile sensors determine the location for them to be deployed within the initial location of the target area. Node agent manages mobile sensors and ensures that sensors move, avoiding obstacles in the target area based on the coverage algorithm suggested in the section 3, maintaining the degree K and maximizing the coverage. If force, which was generated by sensor to find the results that the sensors in MSNS moved to cover a proper target area, is equal to or less than a critical value, the node agent stops MSNS from operating. Interaction interface refers to the target area in the target area manager and refers to obstacles in the map layer manager. The initial location of sensors in the node generator is set outside of obstacles and outside of polygon. When sensors in the node agent move, they avoid obstacles in the target area.

Finally, statistics manager calculates information on mobile sensors observed by mobile agent. Elapsed time means unit time during which sensors move. Moving distance means the total distance that sensors move from their initially deployed position to the current position. Coverage rate provides information in percentage on the degree that mobile sensors cover the target area. Average neighbor means the average number of neighboring sensors out of the entire sensors.

6) Target Area Manager and Viewer