[0006] Currently, once the on-site operator or service technician locates the basic system data, the on-site operator manually records the basic system data or uses a camera to capture the screen image that includes the basic system data. The basic system data is then either transferred by voice over a phone to the technical support team or transcribed into an electronically transferrable format (e.g., emails, etc.) and sent to the technical support team.

[0007] However, transferring basic system data in the above-mentioned manner may be prone to errors. For example, the on-site operator may erroneously record the basic system data which tends to include alphanumeric sequences. The on-site operator then may convey the erroneously recorded basic system data to the technical support team.

[0008] Accordingly, there is a need for an improved system that enables the accurate transfer of basic system data of toolboxes from worksites to technical resources.

Summary

[0008a] In a first aspect, the present disclosure provides an inventory control system comprising: an object storage device including a plurality of compartments, each compartment including a plurality of storage locations for storing objects; one or more processors configured to: establish a database containing information regarding the object storage device, retrieve the information regarding the object storage device from the database, and generate an optical symbol based on the information regarding the object storage device; a display device associated with the object storage device and configured to display the optical symbol; and a mobile device configured to: capture an image of the optical symbol, obtain the information regarding the object storage device based on the image of the optical symbol, and display, on a display screen of the mobile device, the information regarding the object storage device.

[0008b] In a second aspect, the present disclosure provides a method comprising establishing a database containing information regarding an object storage device; retrieving the information regarding the object storage device form the database; generating an optical symbol based on the information regarding the object storage device; displaying the optical symbol on a display device associated with the object storage device; capturing an image of the optical symbol using a mobile device; obtaining the information regarding the object storage device based on the image of the optical symbol; and displaying, on a display screen of the mobile device, the information regarding the object storage device.

Brief Description of the Drawings

[0009] The drawing figures depict one or more implementations in accord with the present teachings, by way of example only, not by way of limitation. In the figures, like reference numerals refer to the same or similar elements.

[0010] FIG. 1 illustrates an exemplary automated tool control (ATC) system according to examples of the subject technology.

[0011] FIG. 2 illustrates an exemplary automated tool control system according to examples of the subject technology.

[0012] FIGS. 3A and 3B illustrate various exemplary tool control storage devices.

[0013] FIGS. 4A and 4B are exemplary embodiments of the tool control storage device according to examples in this disclosure.

[0014] FIGS. 5A–5C illustrate example user interfaces of the tool control storage device for locating the ATC system information in current ATC system according to this disclosure.

[0015] FIGS. 6A–6D illustrate examples of GUI including an icon or an image of a machine-readable optical symbol on the user interfaces of the tool control storage device according to subject technology.

[0016] FIG. 7 illustrates an exemplary smart tool system according to examples of the subject technology.

[0017] FIGS. 8A, 8B, 8C, 8D, 8E, and 8F illustrate various exemplary tool smart tools according to some embodiments in the disclosure.