CLAIMS

What is claimed is:

1. An electronic shipping label for a shipping container and in proximity to an electronic device affixed to the shipping container, comprising:

a communication device configured to obtain from an electronic device a first electronic image file stored on the electronic device;

a processor connected to the communication device and configured to:

obtain, from the electronic device and using the communication device, the first electronic image file stored on the electronic device,

render the first electronic image file during a shipping itinerary, and

wherein the electronic device is configured to:

determine a location of the electronic device,

determine a geo-fence surrounding a destination location of the shipping itinerary,

wherein the geo-fence surrounding the destination location comprises an area that is within a threshold distance of the destination location,

determine that the electronic device has entered, stopped in, and exited the geo-fence surrounding the destination location of the shipping itinerary based on the destination location and the location of the electronic device; and

provide a second electronic image file or a signal to the electronic shipping label to indicate to the electronic shipping label to change to the second electronic image file in response to the determining that the electronic device has exited the geo-fence surrounding the destination location; and

a display that visually displays the rendered electronic image file that is to be read by a laser device even if a power source that powers the display has failed.

2. The electronic shipping label of claim 1, wherein the processor is configured to:

obtain temperature monitoring data including a temperature within the shipping container; and

display, on the touch-screen display, the temperature within the shipping container.

3. The electronic shipping label of claim 1, wherein the communication device is configured to receive a current location of the shipping container, wherein the processor is configured to:

access the second electronic image file when the current location of the shipping container is greater than a threshold distance from a first destination location associated with the first leg of the shipping itinerary.

4. The electronic shipping label of claim 1, further comprising:

a non-reflective flexible plastic cover that is configured to allow a plurality of electronic image files underneath the non-reflective flexible plastic cover to be read by a laser of the electronic device.

5. A system for managing shipping of a shipping container, comprising:

a web portal that monitors a shipping itinerary that has a plurality of legs;

an electronic device in communication with the web portal and stores a first electronic image file associated with the shipping itinerary;

an electronic shipping label having:

a communication device configured to obtain from the electronic device the first electronic image file stored on the electronic device;

a processor coupled to the communication device and configured to:

obtain, from the electronic device and using the communication device, the first electronic image file stored on the electronic device, and

render the first electronic image file during the shipping itinerary; and

a display that visually displays the rendered electronic image file that is to be read by a laser device even if a power source that powers the display has failed,

wherein the electronic device is affixed to the shipping container in proximity to the electronic shipping label and is configured to:

determine a location of the electronic device,

determine a geo-fence surrounding a destination location of the shipping itinerary,

determine that the electronic device has exited the geo-fence surrounding the

destination location of the shipping itinerary based on the destination location and the location of the electronic device; and

provide a second electronic image file or a signal to the electronic shipping label to indicate to the electronic shipping label to change to the second electronic image file;

wherein the electronic shipping label is configured to:

receive the second electronic image file or the signal when the electronic device exits the geo-fence; and

display the second electronic image file.

6. The system of claim 5, wherein the communication device communicates wirelessly with the electronic device.

7. The system of claim 5, wherein the electronic device causes the electronic shipping label to display at least one piece of information obtained by the electronic device during one or more legs of the shipping itinerary.

8. The system of claim 7, wherein the at least one piece of information is an internal temperature within the shipping container.

9. The system of claim 5, wherein the processor is configured to obtain, from the electronic device, a signal that triggers a display of an electronic image file based on being on a leg of the shipping itinerary.

10. The system of claim 5, wherein the display is configured to be powered by a power source and to visually display the first electronic image file even if the power source has failed.

11. The system of claim 5, wherein the processor is configured to render, on the display, the second electronic image file during a second leg of the shipping itinerary when the location of the shipping container is a threshold distance away from a location associated with the first leg of the shipping itinerary.

12. The system of claim 5, wherein the electronic shipping label has a non-reflective flexible plastic cover that is configured to allow a plurality of electronic image files underneath the non-reflective flexible plastic cover to be read by a laser device.

13. A system for managing shipping of a shipping container, comprising:

a web portal that monitors a shipping itinerary of the shipping container and a health of the shipping container according to at least one preselected criteria;

an electronic device affixed to the shipping container and in communication with the web portal and that stores a first electronic image file associated with the shipping itinerary;

a sensor inside the shipping container and providing the sensor data to the electronic device,

wherein the electronic device transmits the sensor data to the web portal,

wherein the web portal receives the sensor data corresponding to a temperature within the shipping container,

wherein the at least one preselected criteria comprises a preselected threshold temperature or temperature range;

an electronic shipping label in proximity to the electronic device, the electronic shipping label having:

a communication device for obtaining from the electronic device the first electronic image file stored on the electronic device;

a processor connected to the communication device and configured to:

obtain, from the electronic device and using the communication device, the first electronic image file stored on the electronic device, and

render the first electronic image file during the shipping itinerary;

wherein the electronic device is configured to:

determine a location of the electronic device,

determine a geo-fence surrounding a destination location of the shipping itinerary,

wherein the geo-fence surrounding the destination location comprises an area that is within a threshold distance of the destination location,

determine that the electronic device has entered, stopped in, and exited the geo-

fence surrounding the destination location of the shipping itinerary based on the destination location and the location of the electronic device; and

provide a second electronic image file or a signal to the electronic shipping label to indicate to the electronic shipping label to change to the second electronic image file in response to the determining that the electronic device has exited the geo-fence surrounding the destination location; and

a display that visually displays the rendered first electronic image file that is to be read by a laser device even if a power source that powers the display has failed.

14. The system of claim 13, wherein the electronic shipping label is configured to:

receive the second electronic image file or the signal when the electronic device exits the geo-fence; and

display the second electronic image.

15. The system of claim 13, wherein the display has a plurality of user interface elements, wherein the processor is configured to:

receive a plurality of selections of the plurality of user interface elements in an ordered sequence, wherein the ordered sequence matches a stored sequence of selections of the plurality of user interface elements;

switch a locking mechanism of the shipping container from a locked state to an unlocked state to access the shipping container in response to a match of the ordered sequence and the stored sequence; and

output, on the display, loading and unloading instructions of the shipping container in response to the switching the locking mechanism to the unlocked state.