CLAIMS

What is claimed is:

1. An article processing method, wherein the article processing method is applied to an article processing terminal, and the article processing terminal comprises a radio frequency identification (RFID) reader, a control unit, and a low-power wide-area network (LPWAN) module; and the method comprises:

controlling, by the control unit, an RFID reader to periodically scan a plurality of short-range articles with short-range communication capabilities;

when any one of the plurality of short-range articles changes, receiving, by the control unit, an article identifier of an article sent by the RFID reader, wherein a changing of the article includes the article being picked up or put down; and

controlling, by the control unit, the LPWAN module to send an article change message to an LPWAN gateway, wherein the article change message comprises the article identifier and an address of an application server, and the article change message is used to instruct the LPWAN gateway to instruct, based on the address, the application server to perform a next processing step on the article identified by the article identifier, wherein the method comprises pre-storing an article list, which includes article identifiers of the plurality of short-range articles, and further comprises that the RFID reader compares an obtained article identifier with the article identifiers in the article list to determine whether there is a change in the article and determine the article identifier of the changed article.

2. The method according to claim 1, wherein the RFID reader is a near field communication (NFC) reader or an ultra-high frequency (UHF) RFID reader.

3. The method according to claim 1, wherein the LPWAN module is a Long Range (LoRa) module or a cellular-based narrowband Internet of Things (NB-IOT).

4. An article processing terminal, comprising:

a control unit, configured to periodically send a scanning instruction to an RFID reader; and

an RFID reader, configured to periodically scan a plurality of short-range articles

with short-range communication capabilities based on the scanning instruction; and when any one of the plurality of short-range articles changes, wherein a changing of the article includes the article being picked up or put down, send an article identifier of an article to the control unit, wherein

the control unit is further configured to: receive the article identifier; and send a sending instruction to an LPWAN module; and

the LPWAN module, configured to send an article change message to an LPWAN gateway according to the sending instruction, wherein the article change message comprises the article identifier and an address of an application server, and the article change message is used to instruct the LPWAN gateway to instruct, based on the address, the application server to perform a next processing step on the article identified by the article identifier,

wherein the article processing terminal is configured to pre-store an article list, which includes article identifiers of the plurality of short-range articles, and the RFID reader is configured to compare an obtained article identifier with the article identifiers in the article list to determine whether there is a change in the article and determine the article identifier of the changed article.

5. The terminal according to claim 4, wherein the RFID reader is a near field communication (NFC) reader or an ultra-high frequency (UHF) RFID reader.

6. The terminal according to claim 4, wherein the LPWAN module is a LoRa module or a cellular-based narrowband Internet of Things (NB-IOT).

7. An article processing system, comprising:

an article processing terminal according to any one of claims 4 to 6, configured to periodically scan a plurality of short-range articles, and send an article identifier of a changed article to an LPWAN gateway;

the LPWAN gateway, configured to: receive the article identifier of the changed article; and send the article identifier to an application server;

the application server, configured to: receive the article identifier to perform a next processing step on the article identified by the article identifier, and obtain attribute information of the article according to the article identifier; and send the attribute information to a multimedia display; and

the multimedia display, configured to receive the attribute information and display the attribute information.