

CUSTOMS INSPECTION AND RELEASE SYSTEM AND METHOD

ABSTRACT

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The present disclosure provides a customs inspection and release system and method. The system comprises: a device layer comprising a plurality of devices for inspection and release, at least some of the plurality of devices being configured to detect a subject to generate detection data; an adaptor layer comprising a plurality
10 of adaptors corresponding to the plurality of devices, respectively, each being configured to receive the detection data from its corresponding device and convert the detection data into an event in a form of a predetermined message service interface protocol; a message service layer comprising a message bus configured to receive events from the adaptor layer and construct event messages based on
15 the events; and a processing control layer comprising a business logic unit configured to receive and process the event messages from the message bus, generate instructions associated with the event messages and transmit the instructions to the message service layer. The message service layer constructs instruction messages based on the received instructions and transmits the
20 instruction messages to the adaptor layer. The adaptor layer converts the instruction messages into instructions in a form suitable for the corresponding devices and transmits the instructions to the device layer. The corresponding devices in the device layer operate based on the received instructions. Hence, the information obtained by the respective devices can be gathered together and
25 monitored remotely via a uniform platform. In this way, the inspection and release efficiency can be improved and the labor cost can be reduced.

Fig. 1