

ABSTRACT

LOW COST, WIDE AREA RFID SYSTEM

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Techniques for radio-frequency identification systems include sensor systems having a sensor unit and one or more sensors and a server. The sensor system includes one or more antennas at a location configured to receive signals from a tag proximate to an antenna and a processor configured to process tag detection signals
10 based on the received signals. The processing may include selectively storing tag detection signals received from one or more antennas and identify an event related to the presence of a tag proximate to an antenna at the location. Sensor system may include a transmitter configured to transmit a message indicating the event over a network to a server. The server may be configured to process the message by analyzing a feature of
15 the signals related to the event. The analysis may evaluate an adjustment of a configuration parameter used to operate an antenna. The configuration parameter may be updated by the server, and the server may transmit a message indicating the configuration parameter to the sensor system.

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FIG. 1