

ABSTRACT

One aspect of the present disclosure is directed to a computer-implemented system for generating an automated outbound profile. The system may include may perform steps including: receiving data comprising a capacity of a fulfillment center (FC); receiving, a plurality of product identifiers associated with incoming products to the FC; periodically collecting and storing transactional logs for the products at the FC using the product identifier; determining a current inventory for the products stored at the FC using the product identifier; generating an outbound profile for the FC using at least one of the transactional logs and the current inventory using a machine learning algorithm; wherein the outbound profile comprises an expected percentage of outgoing products for a plurality of categories of products; and managing network outbound using the generated outbound profile of the FC by comparing the outbound profile to actual outbound capacity of the FC.