

ABSTRACT

A computer-implemented system for optimizing cost of goods sold is configured to: receive supplier configuration data of a supplier associated with the at least one product, supplier configuration data being extracted from an agreement defining parameters associated with one or more tiers; receive an order history associated with the supplier; determine a current tier and current progress within the current tier based on the order history, the current tier being specified by the supplier configuration data; determine an additional quantity necessary to reach a next tier according to the supplier configuration data; determine one or more trade-off parameters affected by the additional quantity, the one or more trade-off parameters being determined by a computerized model simulating future customer demand; and transmit a request to initiate a new order for the additional quantity based on the one or more trade-off parameters.