Container Dwell Time – Metrics for Port Efficiency & Velocity

Port metrics and key performance indicators are popular discussion topics in Washington, DC and at local port authorities. One meaningful metric is “Dwell Time,” the amount of time a container waits to get picked up at a marine terminal after being unloaded from a vessel.

To move the discussion forward on port metrics, the Pacific Merchant Shipping Association (“PMSA”) has begun to analyze container dwell time at all 12 international container terminals in San Pedro Bay. PMSA retained SC Analytics to collect data from marine terminals and analyze and aggregate container dwell time for a San Pedro Bay complex-wide perspective. The analysis examines the weighted average dwell time in both days and longshore shifts. This is the first report and PMSA intends to publish this data monthly. “Hopefully this information will provide data-driven solutions for improved supply chain efficiency,” stated PMSA President, John McLaurin.

Dwell time is an indicator of how efficient the ports are operating and how quickly the containers are flowing through the terminals. Every time a truck shows up to pick up a container, a stack of containers get shuffled around to get to the intended one; this is a time-consuming process which hinders the efficiency for both terminals and truckers. With longer dwell times, terminals are storing more containers, and truckers must wait for longer periods as containers must be moved to reach the older containers on the bottom of each stack. With shorter dwell times, terminals are storing fewer containers and able to finish transactions more quickly. In this first report, the data shows that most containers are picked up within 3 days of arrival, but there are a number of containers that overstay their welcome. “We will continue to gather data on an ongoing basis and provide it to our supply chain partners and public officials,” stated McLaurin.
About the Pacific Merchant Shipping Association (PMSA)
The Pacific Merchant Shipping Association (PMSA) is an independent, not-for-profit association focused on global trade. PMSA operates offices in Oakland, Long Beach and Seattle, and represents owners and operators of marine terminals and U.S. and foreign vessels operating throughout the world.