Leverage Oracle Engineered Systems to maximize the performance of your logistics network with rapid simulation and what-if analysis capabilities

Rapid Logistics Scenario Management

Oracle In-Memory Logistics Command Center (LCC) is an innovative supply chain application for companies seeking to optimize the performance of their logistics operations. Designed specifically to exploit the capabilities of Oracle’s Engineered Systems, Oracle In-Memory Logistics Command Center provides the means to perform rapid simulations and what-if analyses of your logistics network using real-world operational data, rules and constraints. This is in direct contrast to traditional solutions that have required the use of inherently inaccurate aggregated data to consider network options. This unique approach to logistic scenario management enables companies to increase supply chain resiliency and agility, decrease costs, and improve service levels (see figure 1).

The key capabilities of Oracle In-Memory Logistics Command Center include:

- Support for both strategic and operational scenarios. Packaged scenario templates enable easy analysis of a number of supported scenarios (e.g., carrier freight rate change analysis). Users can also define their own scenarios for analysis.
- Specify key criteria such as order sets, time duration, etc. to constrain and shape the analysis in order to better reflect real-world operational conditions.
- Extract key metrics and visualize them using an advanced analytics framework to better understand and compare multiple scenarios side-by-side. LCC’s analytical capabilities are delivered using Oracle’s best-in-class business intelligence technology.
- Packaged support for a number of key performance metrics and associated dashboards that support a variety of slice-and-dice, drill-down and ad-hoc query mechanisms to provide a detailed understanding of network performance. In addition, the user has the ability to create custom metrics and visualizations.
- Store scenario analyses indefinitely for future reference. This allows for past analyses to be referenced and utilized when similar risks or scenarios arise elsewhere in the network. The implementation impact of policies in practice can also be easily compared with the scenario analysis that drove them, allowing for continuous learning and improvement of strategies.
- Out of the box integration with Oracle Transportation Management to copy relevant operational data.
Oracle In-Memory Logistics Command Center is a key component of Oracle Transportation Management and the Value Chain Execution suite of solutions.

The Oracle Transportation Management system was built to provide a single, complete solution to manage all aspects of transportation and logistics. The following options are available with Oracle Transportation Management:

- Fleet Management
- Forwarding and Brokerage Operations
- Freight Payment, Billing, and Claims
- Transportation Intelligence
- Logistics Inventory Visibility
- Transportation Operational Planning
- Transportation Cooperative Routing
- Transportation Sourcing

Other Related Products:
- Oracle Global Trade Management
- Oracle Customs Management
- Oracle Trade Compliance
- Oracle Global Trade Intelligence
- Oracle In-Memory Logistics Command Center

Figure 1. Scenario analysis in Logistics Command Center

Strategic Scenario Management

Strategic scenario management allows you to optimize your logistics operations for the long term. It typically involves modeling changes in key business conditions and then analyzing the impact to the logistics network over the longer term. Resulting policies may require a network configuration change or a response strategy that could have a high impact to the network. This is balanced by the fact that they will often lead to significant and high-value changes resulting in considerable savings to the operation.

We view the ground-breaking approach taken by Oracle In-Memory Logistics Command Center of simulating the real-world operational network with all the associated detail as fundamental to generating accurate and implementable results.

Examples of strategic scenario analysis include:

- Logistics Network Disruptions
- Freight Cost Changes
- Carrier/Service Provider Risk Management
- Supplier/Vendor Risk Management
- Logistics Network Route Evaluation
- Sustainability Evaluation
- Cost-to-Serve and Profitability Analysis of adding new customers, new divisions, new lines-of-business, and new geographies to existing logistics networks.

Operational Scenario Management

Operational scenario management involves analyzing multiple transportation options for the current logistics demand and determining the optimal approach. Typically, operational systems present the user with a single shipment plan based on a single objective – usually to minimize costs. Oracle In-Memory Logistics Command Center allows analysis, within the context of the daily business process, of different logistics strategies simultaneously for the same operational data to determine what the best strategy is today. This provides a new way to optimize operations that is simply not
available from other systems. Executing the resulting solution typically requires little to no network change while providing significant savings over current operations.

Examples of operational scenario management include:

- Logistics constraint analysis (can constraints be relaxed to achieve a better solution?)
- Algorithm choice/setting analysis (which setting works best for today’s orders?)
- Operational network analysis (are non-traditional routes, modes, carriers applicable today?)

**Faster Time To Value**

LCC has been designed, built, scaled, and tested from the ground-up as a hardware and software package specifically and exclusively for Oracle Engineered Systems. This enables highly accelerated implementations because the In-Memory products were built only for the targeted platform and take advantage of unique capabilities of the stack throughout the product design including development, testing, and performance tuning. When customers deploy the system, the software and hardware are deployed in unison and operate as a cohesive solution, reducing overall cost of deployment and ownership.

**Flexible Deployment Options**

A broad range of deployment and pricing options are available for Oracle applications. In addition to traditional, on-premise models, Oracle offers a comprehensive portfolio of modern cloud solutions which provide customers with the widest selection of choices to meet their evolving business, IT infrastructure, and development needs. Visit [www.oracle.com/cloud](http://www.oracle.com/cloud) for more details.

**CONTACT US**

For more information about Oracle In-Memory Logistics Command Center, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

**Hardware and Software, Engineered to Work Together**

Copyright © 2014, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0914