


 The logo for c-treeACE is oriented vertically. The text 'c-tree' is in black, 'ACE' is in blue, and there is a small icon of a tree at the bottom.


BoxWorks Streamlines Operations & Increases Performance by 300% with c-treeACE®

BoxWorks Technologies writes customized, automated inventory and material handling software for the beverage, food service/supply, educational supply, and paper products industries. Household names such as Anheuser-Busch, Coca-Cola and Dole use BoxWorks' solutions to handle and distribute products, as well as automate inventory report generation, transaction histories, and tracking reports.

These are critical and complex tasks given the depth and breadth of company product lines and sales volumes. Distributors using BoxWorks' solutions must respond to fluctuating, variable consumer preferences by maintaining lean inventories and tight product turnaround times. This typically involves running hundreds of inventory reports numerous times daily, frequently drawing from the same data records when multiple requestors ask for reports simultaneously. Real-time insight into day-to-day product movement is critical, and FairCom's c-treeACE® plays a key role.

Within BoxWorks' portfolio of solutions is Echo WCS™, which incorporates database, communications, logging, and display technologies from a wide variety of shop floor devices, used for receiving, inventory control, shipping,

integrated work order and material flow control. To deliver the highest performance levels obtainable for its customers, BoxWorks developers sought to integrate the best of non-relational (ISAM or NoSQL) with relational (SQL) and PHP applications using the newest version of c-treeACE, V10. Picture a handheld device with a scanner pulling different products on a conveyor belt for shipping. At any given time there can now be 300 to 400 to 500 connections into a single c-treeACE data engine, and all serving the accounting, shipping and inventory control departments.

"FairCom's flexible approach allows us to take advantage of new technologies at our own pace, never forcing us to rewrite our old code before we or our customers are ready to," said Ron Stoll, president, BoxWorks Technologies, Inc. "By using c-treeACE, we continue to realize the benefits of our legacy interfaces while adding newer interfaces such as SQL and PHP."





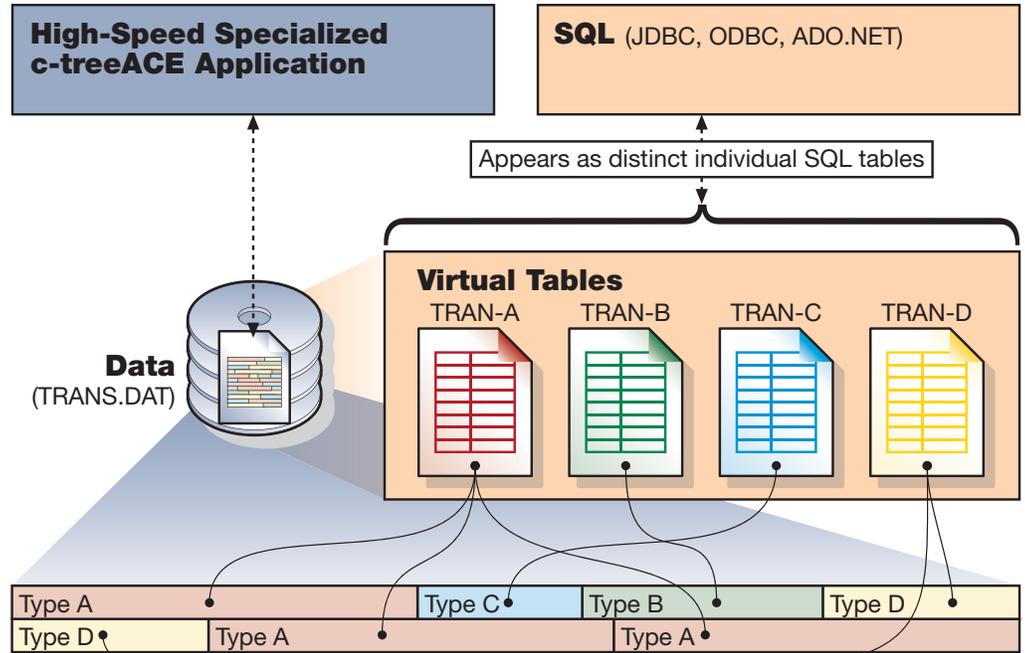
FairCom[®]

North America • South America • Europe • Asia

High-performance,
engineering-level
database technology



To eliminate any potential operational risks involved with an extensive technology migration, BoxWorks deployed c-treeACE with relational multi-record type support to map, "on the fly," non-relational, proprietary data records into relational formats, without changing existing application code. BoxWorks engineers selected c-treeACE for its superior customization and control of data base operations that is backed by three decades of proven dependability. Further, c-treeACE offered additional flexibility when managing the data integrity, access and security.



c-treeACE's multi-record type support

Following the migration that evolved at the pace set by BoxWorks and not its tech vendors, distributors and materials handlers using Echo WCS now seamlessly access data and generate reports from data gathered from a wide group of shop floor devices. Further, with the introduction of the newest version of c-treeACE's Unix shared memory support, inventory reports that previously took three minutes to run are now produced in just over one minute—delivering a performance gain of 300%.

"This is a major savings of cost and time for our customers who typically run hundreds of reports many times throughout the day," said Stoll.

Customers use tailored software from BoxWorks, integrated with FairCom's c-treeACE, for automated generation of inventory reports, transaction histories, and