

## About Computer Associates

Computer Associates International, Inc (NYSE: CA) has been developing and supporting software solutions for more than 99% of the Fortune 500® in more than 100 countries for over a quarter century. CA's world-class solutions address all aspects of eBusiness process management, information management, and infrastructure management in six focus areas: enterprise management, security, storage, portal and business intelligence, database management, application life cycle management, and application development. As the world's third largest enterprise software company, CA provides industry-leading integrated solutions through strategic partnerships and powerful brands such as Unicenter®, BrightStor™, eTrust™, CilverPath™, Advantage™, Jasmine® and AllFusion™. With mission-critical software in security and storage, CA provides reliable, quality technology. CA works hard to achieve the highest quality in their solutions to help their customers meet changing business needs. That's why CA became the first and only global enterprise software company to meet the exacting standards for worldwide ISO 9002 certification.

### Advantage CA-Realia II Workbench Overview

Advantage™ CA-Realia® II Workbench™ provides a mainframe-compatible COBOL development environment on the PC. It uses the power of the PC

environment to improve the development and maintenance of COBOL and CICS applications.



Advantage CA-Realia II Workbench includes a high-speed COBOL compiler, an interactive debugger, a COBOL-Intelligent analyzer, a CICS emulator, a COBOL-sensitive editor, and a complete life cycle manager with mainframe connectivity.

Advantage CA-Realia II Workbench dramatically shortens the debugging and testing phase by allowing programmers to take advantage of the GUI interface and rapid response time available in a PC environment. It removes developers from traditional mainframe constraints. Interactive testing with Advantage CA-Realia II Workbench allows programmers to diagnose many errors in a single test session for maximum productivity.



Computer Associates™

**Company:** Computer Associates

**Industry:** Software Development Tools

**Requirements:** Industry: Portability and performance

*"The use of FairCom's c-tree product provides our clients with fast data access for applications developed using Advantage CA-Realia II Workbench."*



## FairCom and Computer Associates

FairCom's c-tree Plus provides the underlying technology for the runtime file system of Advantage CA-Realia II Workbench. Computer Associates selected FairCom technology for this application because of the strength and flexibility of c-tree Plus and the flexibility of FairCom's business models.

From a technology standpoint, c-tree Plus offers a robust solution for Advantage CA-Realia II Workbench. Further, the high-speed data management provided by c-tree Plus brings superior response time to application programs created by Advantage CA-Realia II Workbench—a fundamental requirement for development tools.

From a business standpoint, FairCom's business development team was able to offer the business and pricing flexibility to meet the sales model offered by Computer Associates. FairCom worked with Computer Associates to design pricing models that reflect the pricing strategy of Advantage CA-Realia II Workbench. This flexibility, coupled with the low total cost of ownership of c-tree Plus, worked well for Computer Associates.

## The Details

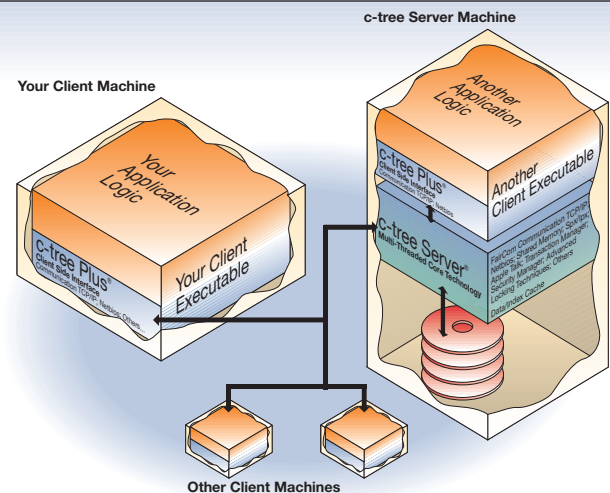
When developing Advantage CA-Realia II Workbench, Computer Associates wanted to deliver a product that offered large file support combined with solid performance out-of-the-box. To make this possible, FairCom incorporated special code for Computer Associates to let them use either the c-tree Plus standalone model or the client/server model from the same code set.

Computer Associates also needed to provide support for files larger than 4 GB. Additionally,

Advantage CA-Realia II Workbench called for the ability to provide high data availability. FairCom's database tools have always offered developers absolute data availability by providing record locking and key level locking as opposed to other database products that use page locks. With page locks, it is possible for multiple records or key values to be locked, thereby increasing the likelihood that a user will have to wait for a record to become available. With FairCom, only the specific record or records being requested will be locked, and only when updated, not when casually viewing.

Finally, the requirements for a COBOL compiler include cross-platform source code portability, interoperability to access data from disparate platforms, and solid performance. c-tree Plus is the industry leader in cross-platform support (with support for over 30 platforms) and offers seamless data sharing—the server's communication logic handles all of the data ordering issues without imposing any overhead on the developer. These features, and the superior performance of c-tree Plus's ISAM-level support, were perfect complements to CA's technology.

## FairCom Technology



FairCom's robust database Server offers significant throughput enhancements over traditional non-server models by providing reduced network traffic and utilizing the power of true multi-threading. FairCom's advanced client/server implementation supports heterogeneous networks and lets dissimilar clients attach concurrently to any single or combination of FairCom Servers. Portability is afforded through over 30 supported platforms and 5+ supported communication protocols. Applications can be scaled by changing the back-end Server to more robust platforms

with ease. FairCom Servers are easy to set up and require no system tuning or DBA. In addition, FairCom offers a robust Server Side Development System, which includes source code to most of the Server's key components and allows application developers to build their own application specific database Server. Features include encryption, extensive anti-deadlock detection/resolution, caching/index compression, full OLTP (online transaction processing) with complete roll-forward/roll-back, automatic recovery, intermittent save points, file mirroring, full administrative API, and more.

For more information on Advantage CA-Realia II Workbench and other CA products, visit [www.ca.com](http://www.ca.com)



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