

PRODUCT SHEET
CA Easytrieve

CA Easytrieve® r11.5



CA Easytrieve® is a powerful information retrieval and data management system for mainframe, UNIX, Linux and Windows environments. It combines an enterprise report generation facility with data manipulation functionality and provides access to data residing on the mainframe or other supported platforms via simple, easy-to-master CA Easytrieve language. This intuitive programming language enables novice users to produce simple reports while offering extended facilities experienced users can leverage to perform advanced tasks.

Overview

In an age of digital dashboards and wireless technologies, the vast majority of critical business data still resides on the mainframe for large corporations. In addition, data sources are spread across multiple platforms. CA Easytrieve helps you overcome the daily challenge of how to create and run cost-effective, meaningful reports—standard, custom, ad hoc, simple and complex—for the numerous audiences you serve.

Business value

CA Easytrieve is designed to relieve the burden on COBOL developers to create, debug and run all types of reports, thereby reducing costs and minimizing information request backlogs. It can also help you create and deliver powerful reports for your employees so they have the necessary access to business-critical information. Since CA Easytrieve works in heterogeneous environments, you can generate reports with data from multiple repositories, perform fundamental data management tasks and output the results to a file, paper or even HTML.

Features

Mainframe 2.0

CA Easytrieve has adopted key Mainframe 2.0 features that are designed to simplify your use and administration of CA Easytrieve and enable your staff to maintain it more effectively and quickly.

- **CA Mainframe Software Manager™:** CA Mainframe Software Manager (CA MSM) is designed to automate CA Easytrieve acquisition, installation, deployment, configuration and maintenance and remove SMP/E complexities. CA MSM helps save time and resources when compared with the manual steps used to perform these tasks.
 - The **Software Acquisition Service** enables you to easily move product installation packages and maintenance from CA Support Online directly to your mainframe environment and prepare them for installation.
 - The **Software Installation Service** standardizes CA Easytrieve installation, which includes a new, streamlined Electronic Software Delivery (ESD) method that allows CA Easytrieve to be installed using standard utilities. This service also provides standardized SMP/E product installation and maintenance via APARs and PTFs, and simplifies SMP/E processing through an intuitive graphical user interface and an intelligent installation wizard.
 - The **Software Deployment Service** enables you to more easily deploy CA Easytrieve in your mainframe environment.
- **Installation Verification Program (IVP) and Execution Verification Program (EVP):** As part of qualification for inclusion in the set of mainframe products from CA Technologies released every May, CA Easytrieve has passed stringent tests performed through the IVP and EVP to find and resolve interoperability problems prior to release. These programs are an extension of CA Technologies ongoing interoperability certification initiative launched in May 2009.
- **Best Practices guide:** This guide provides information on CA Easytrieve installation, initial configuration and deployment to shorten the learning curve for staff who are responsible for the installation and management of this product.

- **Serviceability:** In order to provide additional levels of information and consistency for problem determination, CA Easytrieve has adopted the following serviceability enhancements:
 - **Product description information:** CA Easytrieve provides a Product Description module that contains the product name, version/release number and other useful information. To determine which products from CA Technologies are installed within each z/OS environment, you can access and report on this module using the CA Common Services EXAMINE facility.
 - **Module identification:** Each object deck comprising CA Easytrieve contains a copyright and module identifier to assist with error analysis and debugging.

What's new in CA Easytrieve r11.5

Support for CA MSM r3.0:

- **Software Deployment Service (SDS):** Use this service to deploy your mainframe products from CA Technologies to your target enterprise systems.
- **Database migration tool:** Use this tool to migrate your current CA MSM database after you upgrade CA MSM.
- **Automatic download scheduling:** Use this tool to automatically obtain updates for products and product releases on a regular basis.

What's new in CA Easytrieve r11

- **Support for the Windows environment:** CA Easytrieve is now available on the Microsoft Windows platform. A Windows-based CA Easytrieve environment allows compilation and execution of CA Easytrieve programs within Windows. This compiler and runtime environment provides the capabilities of the CA Easytrieve language to the mainframe, UNIX and Linux environments, so a program written on Windows can be migrated—virtually without change—to any other platform.
- **Windows-based development environment:** A user-friendly GUI environment allows you to write, debug and deploy CA Easytrieve programs on the Windows platform. The interactive debugger syntax checks the program, highlights errors for easy correction and allows you to view real-time variables.

- **CA Easytrieve Simplified Design System (SDS):** CA Easytrieve SDS is designed to assist existing clients in generating CA Easytrieve programs through the use of wizards, a report painter and a programming canvas. Depending upon the complexity of the application being generated, users can utilize the intuitive visual interfaces to generate a CA Easytrieve program without having to personally code any Easytrieve language statements.
 - This feature provides a solution where decision support requirements can be met with little or no training. These ad-hoc requests may be targeted for execution on any platform that CA Easytrieve currently supports and will be able to run without knowing that the product is executing behind the scenes.
 - This allows for the experienced CA Easytrieve programmers to edit existing “production” programs and reports—as well as provide the ability to take pieces of existing programs and distribute them to their users for easy integration into other reports or programs developed within this option.
- **Printer Set Definition (PSD) editor:** This extends the mainframe PSD language processor support to the UNIX and Windows platforms. Its graphical user interface (GUI) environment assists in building complex definitions, which can then be targeted and built for any platform that CA Easytrieve supports.
- **GUI editor for the options table:** Within the Windows version of the product, a GUI application is included that allows you to set or change the “Compile,” “Execution” or “Reporting” values that are stored within the CA Easytrieve Options Table. Once configured, a valid options table can be generated for any CA Easytrieve platform and migrated there for usage.
- **New features for the z/OS and Windows platform:**
 - 128-character variable names
 - Boundary checking of subscripts and indexes during execution that protects your environment and prevents abnormal termination
 - Introduction of the PROGRAM super activity that can execute other activities as logic dictates
 - Enhanced compilation listings
 - An environment-independent FILE statement to help ensure portability between environments and access methods
 - Direct access to execution parameters through the PROGRAM statement (in z/OS this can replace calls to EZTPX01)
 - Ability to LINK and TRANSFER to another CA Easytrieve program

- The z/OS version allows both static and dynamic calls to programs written in other languages
- The ability to specify column locations for title items in automatically adjusted reports
- File statistics generated at the end of program execution (optional)
- **Web-related enhancements:** In an effort to take advantage of the latest technologies, CA Easytrieve has been enhanced to integrate with Web applications and be automatically available for Web viewing.
 - **XML output capability:** With the new XML parameter on the REPORT statement, you can specify that a report be generated as an XML file, allowing your CA Easytrieve programs to be integrated directly into your Web applications and supply real-time, selectable reports against changing data. The data within the file can be integrated into any XML style sheet and viewed within a Web application or input into any application supporting XML. All formatting of the XML data is controlled by the current CA Easytrieve statements within the report section.
 - **Web-enablement:** This allows CA Easytrieve to be used in the same manner as CGI scripts within Web pages. Passing parameters to a CA Easytrieve program will customize data that is being sent back into the Web browser. CA Easytrieve web-enables applications in a matter of minutes. Add three simple statements to any new or existing CA Easytrieve program to create the HTML file and all the HTML tags required to display in any browser, and your application simply links to the file or runs it stand-alone. There is no need for additional debugging or web-enabling tools.
- **ODBC interface:** This interface provides support for any ODBC-enabled data source, including CA IDMS™/DB, CA Datacom®/DB, Microsoft Access and SQL Server, Oracle and DB2.
- **C-ISAM processing:** Both variable-length and relative record formats of C-ISAM files are now supported on UNIX platforms.

Other key features

- **Report processing:** The CA Easytrieve language is an industrial-strength reporting facility that is used in thousands of businesses.
 - **Visually structured report:** Unlike COBOL, CA Easytrieve produces the visual structure of each report automatically. For example, reports are centered on the page; titles are centered over the report; report date and page numbers are included; column headings are centered over the data; and all subtotal and total lines are labeled.

- **Different data types:** CA Easytrieve produces unlimited reports from a single pass of data and automatically formats reports, even when character output sizes vary due to different data types (EBCDIC and DBCS formats) and font specifications. Some common uses of the CA Easytrieve report processing features include summary reports and summary output files, mailing labels of any size or format, hexadecimal print of either files or fields and forms.
- **Structured language:** CA Easytrieve is a structured language with major sections of programs written in a specific order, thereby enforcing a structured methodology. The product provides standard programming constructions, such as nested IF statements, DO WHILE statements for repetitive logic and PERFORM command supporting procedures that you define. Procedures are placed below the main logic, resulting in clear, easy-to-follow programs. With a standardized methodology, program quality is improved, maintenance efforts are reduced and productivity is increased.
- **Complete reports:** Mailing labels and applications can be created with just a few CA Easytrieve statements. The fast, flexible, simple-like language includes immediate error detection and correction and an intelligent editor.
- **File manipulation:** CA Easytrieve makes it easy for you to manipulate files and design reports.
 - **Flexible input capability:** CA Easytrieve accepts input from any number of data sources, processes sequential or numerous database files and allows the usage of fixed, variable, undefined or spanned record formats. It also accesses variable length fields. If the data source is mainframe-based, data can be extracted to the other supported platforms for creating CA Easytrieve programs and testing the reports. Synchronized, multi-file input capabilities provide simple testing of all conditions, including duplicate key tests.
 - **Advanced functions:** CA Easytrieve not only allows you to perform basic edits and file updates, but it also eases such complex functions as searching files and performing logical selection based on input or calculation, matching an unlimited number of files and creating sub-files containing selected records from a master file.
- **Internet-ready reporting:** CA Easytrieve offers the ability to produce reports in HTML format so users can create reports that may be viewed either locally or from the Internet using any web browser. By using the Extended Reporting Facility within CA Easytrieve on any of the supported platforms, reports can be created with stylized text, graphics and sound. Thus, you can customize reports and make them available to anyone who uses a web browser for viewing or printing.

- **Comprehensive output capabilities of CA Easytrieve:**
 - Creates and updates files
 - Adds, deletes and reformats records and output files in any format
 - Allows countless input and output files
 - Sorts on a limitless number of keys
 - Provides endless control breaks
 - Produces unlimited reports from a single pass of the data
 - Produces summary reports and files
 - Provides the capability for special forms
 - Formats reports automatically
 - Produces reports in multiple printer fonts
 - Provides edit masks, such as floating currency symbols, check protection and blank when zero
 - Provides a hexadecimal print command
 - Allows user-defined reports
- **Application efficiencies:** Execute options provide the ability to compile and create executable modules directly from CA Easytrieve statements, which helps ensure optimized usage of computer resources. Additionally, the Macro facility allows commonly used routines or sections of code to be shared among multiple CA Easytrieve programs. This results in less coding, fewer errors and easy access to complex routines for inclusion by end users who are writing ad-hoc reports.
- **Optional database interfaces:** CA Easytrieve allows you to access all enterprise information easily, without having to learn individual database formats or access techniques. CA Easytrieve provides access to a variety of the most popular databases, including:
 - CA IDMS/DB
 - CA Datacom/DB
 - DB2
 - SQL/DS
 - IMS/DLI
 - Total
 - Supra
 - Oracle

Delivery approach

CA Services provides a portfolio of mainframe services delivered through CA Technologies internal staff and a network of established partners chosen to help you achieve a successful deployment and get the desired business results as quickly as possible. Our standard service offerings are designed to speed deployment and accelerate the learning curve for your staff. CA Technologies field-proven mainframe best practices and training help you lower risk, improve use/adoption and ultimately align the product configuration to your business requirements.

Benefits

CA Easytrieve enables you to easily, rapidly and flexibly create and publish comprehensive reports to traditional report images and Web portals from enterprise data sources across many enterprise platforms.

- **Easy, powerful and fast language:** CA Easytrieve can help you create and deliver powerful reports for your employees so they get the full benefit of business-critical information.
- **Improves productivity through ease of use:** CA Easytrieve is designed to relieve the burden on COBOL developers to create, debug and run all types of reports, thereby reducing costs and information request backlogs.
- **Comprehensive functionality:** Since CA Easytrieve works in heterogeneous environments, you can generate reports with data from multiple repositories, perform fundamental data management and output the results to a file, paper or even HTML.

The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA Easytrieve is a key component of the Mainframe 2.0 initiative from CA Technologies to change the way the mainframe is managed forever by helping you maximize the value of our mainframe products and by providing a simplified experience and innovative solutions that deliver value quickly and flexibly.