CA ACF2™ Option for DB2 r1.2

CA ACF2™ Option for DB2 brings the powerful capabilities of CA ACF2™ for z/OS to your DB2 environment, providing a centralized security strategy that helps you simplify the complex process of managing access to critical DB2 resources, privileges and utilities. The product delivers consistent security, logging, auditing and reporting to help your organization more easily manage complex DB2 environments.

Overview

In organizations where a DBA maintains DB2 security there is often a serious conflict of duties whenever functional separation is essential to ensuring compliance and protecting vital assets. To manage these challenges, organizations must strengthen security, streamline administration and provide enhanced auditing capabilities. CA ACF2 Option for DB2 protects DB2 resources and helps you control resource sharing by replacing native DB2 security statements with rules that help eliminate cascading revoke issues. Additionally, the product helps you authorize resource access in ways that align with your organization's standard security policies—and only requires one ID.

Business value

CA ACF2 Option for DB2 protects your mainframe systems and data by controlling access to resources. It closely maps security to organizational management practices using a flexible configuration mechanism that automatically associates users to one or more roles. Moreover, CA ACF2 Option for DB2 delivers flexible, streamlined administration, helping you quickly and efficiently manage users and control resources—and enable a rapid, cost-effective response to changing business needs.

Features

Mainframe 2.0

CA ACF2 Option for DB2 has adopted key Mainframe 2.0 features that are designed to simplify your use of CA ACF2 Option for DB2 and enable your staff to install, deploy and maintain it more effectively and quickly.

- **CA Mainframe Software Manager™:** CA Mainframe Software Manager (CA MSM) automates CA ACF2 Option for DB2 deployment and maintenance and removes SMP/E complexities.

  — 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 ACF2 Option for DB2 installation, which includes a new, streamlined Electronic Software Delivery (ESD) method that allows CA ACF2 Option for DB2 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 easily deploy CA ACF2 Option for DB2 in your mainframe environment.

  — CA MSM Consolidated Software Inventory (CSI) updates and infrastructure improvements add flexibility to CA MSM processing of CSIs and enable CA MSM to more effectively utilize CPU and system memory.

- **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 ACF2 Option for DB2 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 ACF2 Option for DB2 installation, initial configuration and deployment to shorten the learning curve for staff who are responsible for the installation and management of this product.

What's new in CA ACF2 Option for DB2 r1.2

- **Enhanced administrative features:** In each new product release, CA Technologies enhances and extends CA ACF2 Option for DB2's administrative capabilities. In CA ACF2 Option for DB2 r1.2, these upgrades include:

  — DB2 SAFELIST Record: SAFELIST processing for CA ACF2 Option for DB2 is the equivalent of the native DB2 security "GRANT TO PUBLIC" statement. The DB2 SAFELIST record allows you to define resources that are unrestricted. Any person trying to access a resource that is on the SAFELIST for the requested service level will automatically be granted access without a security call being made.

  — Group SYSID: The CA ACF2 Option for DB2 OPTS record includes a new field called "GSYSID" that allows a group SYSID to be assigned to a DB2 subsystem. This group SYSID value is used in place of the DB2 SYSID for rule validation, allowing multiple DB2 systems to use the same rules without masking the SYSID.

- **Resource rule enhancements:** CA ACF2 Option for DB2 has been enhanced to provide the same resource rule capabilities as CA ACF2 for z/OS. This enhancement provides:

  — NORULELONG option on compile

  — Mixed case resource rules

  — Dynamic compile

  — PREFIX control card

  — MEMBER control card

  — NORULELONG control card

  — OWNER control card

  — Extended resource keys on rule line

  — NEXTKEY on rule line

- **Rule testing:** CA ACF2 Option for DB2 allows you to test DB2 rules, helping to ensure security goals are met.

Other key features

- **Comprehensive security:** CA ACF2 Option for DB2 provides comprehensive security for DB2 resources across multiple subsystems.

- **Inclusive user management:** Because many government regulations and corporate policies require separation of functions or duties, CA ACF2 Option for DB2 allows you to decide if security for DB2 will be maintained by your DBA or security administrator. This helps you establish individual accountability, a fundamental piece of effective security.

- **DB2 resource management:** Requirements for securing DB2 resources are just as important as securing data in other applications. As such, CA ACF2 Option for DB2 provides the following:

  - Protection by default
  - Secondary AUTHIDS reduction
  - Controlled data sharing
  - DB2 ownership and creator concepts
  - Changing ownership
  - Securing privileges and authorities

- **Auditing and monitoring:** Many laws and regulations require organizations to establish internal data controls, including DB2 resources and functions. CA ACF2 Option for DB2 includes a variety of audit functions and reports that provide the information you need to monitor access and assess the propriety of access rights.

- **Separation of administrative functions:** Native DB2 security requires that objects exist before you can grant privileges to them, making it difficult to separate security and administrative functions. CA ACF2 Option for DB2 enables you to separate the security and database administration functions to comply with your security policies.

- **Cleaning up DB2 resources:** CA ACF2 Option for DB2 includes support for resource rule tracking. This support is effective only when running at least CA ACF2 for z/OS r12 with CA ACF2 Option for DB2. When used in conjunction with CA Cleanup for ACF2™ r12, all DB2 resources are eligible for monitoring and subsequent deletion. CA Cleanup for ACF2 is a complete solution that helps you identify and remove obsolete, unused, redundant and excessive access on your mainframe security system.

- **Automated conversion tool:** Migrating from DB2 native security can be a confusing, error-prone and time consuming process. CA ACF2 Option for DB2 provides a conversion utility that changes all catalog entries created by GRANT statements to CA ACF2 Option for DB2 rules. After the GRANT statements have been converted, you can review each of these rule entries to add any additional CA ACF2 Option for DB2 features.

FIGURE A.

CA ACF2 Option for DB2's rule testing facility panel

Add/delete rule line panel using CA Web Administrator
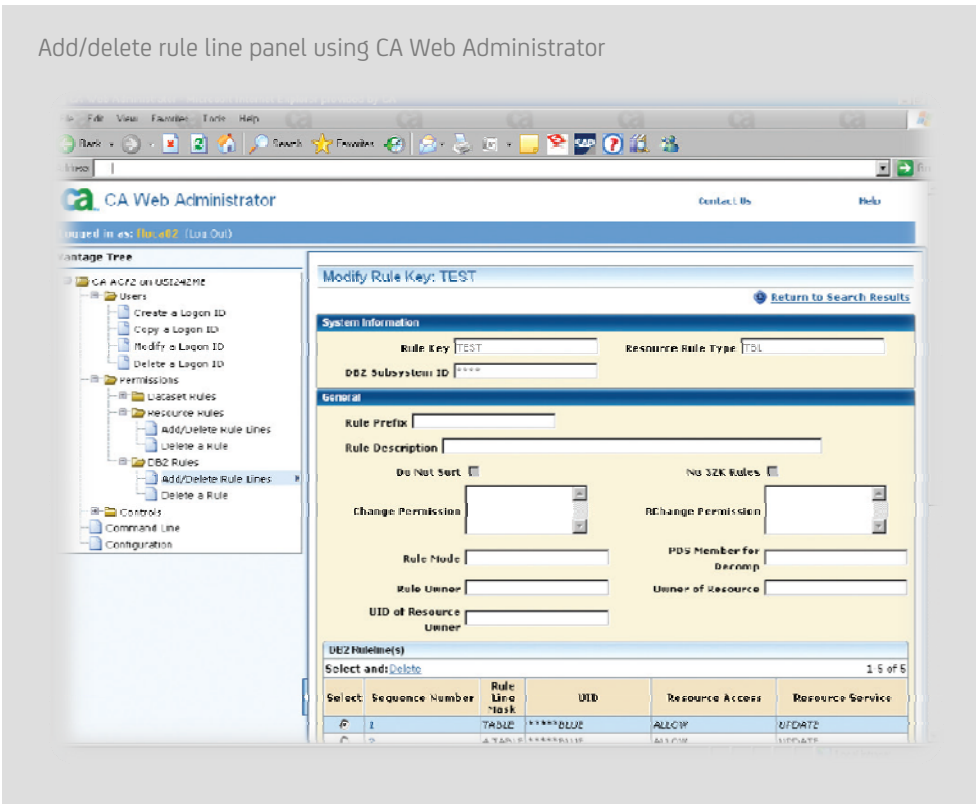
Delivery approach

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 ACF2 Option for DB2 helps your organization:

- Extend the security capabilities of CA ACF2 to the DB2 environment

- Separate security administration duties to exercise greater management control and safeguard systems

- Improve productivity with a single, centralized security interface

- Achieve consistent security and logging with streamlined auditing and reporting

- Increase audit abilities with separation of security and database tasks—promoting the separation of duties so that the security in this area is not a function of the DB2 DBA

The CA Technologies advantage

CA Technologies has 30 years of recognized expertise in robust, reliable, scalable, and secure enterprise-class IT management software. CA ACF2 Option for DB2 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.