

CA 2E r8.6

At a Glance

CA 2E simplifies application development by incorporating development design models, native code generation and deployment facilities into a single development environment. Data-driven in its approach, CA 2E automatically generates the code, database designs and definitions, help text and other objects to build applications for the IBM i® server (formerly called AS/400®). CA 2E helps developers accelerate the development of high-quality applications that can be easily maintained. It takes advantage of both traditional and newer IBM i supported technologies to effectively address key development trends, like component-based architecture and data integration across systems and platforms.

Key benefits/results

Accelerated development. CA 2E templates are incorporated into application designs simply through an easy-to-use model editor.

Technology insulation. CA 2E generates 100% of the code required for applications—client, server and database objects.

Simplified application maintenance. Ongoing changes to applications are simply made in the design model.

Key features

Model-driven development. Systems are designed with business requirements in mind.

Data-driven design. A relational database design is a cornerstone of the CA 2E development environment.

Code generators. RPG III/IV, COBOL, COBOL ILE.

Object-based approach. Platform neutral syntax is incorporated in the application modeling process.

Object reuse. Enables the creation of reusable components that can be used many times over.

Direct-to-web functionality. CA 2E Web Option enables HTML generation and runtime facilities.

Full lifecycle support. Handles design, coding, generation, building and ongoing maintenance.

Workgroup environment. Teams of developers can work on the same project simultaneously.

Impact analysis. A set of functions for managing design objects is supplied.

Business challenges

Core business applications are critical to the success of the business today more than ever. However, developing and maintaining them can be a challenge. These business systems must support an organization's core business strategy, and they must be flexible enough to adapt to change. This can be difficult, especially when mergers, acquisitions and partnerships require that key data must integrate across multiple platforms and computing environments.

The IBM i remains the server and platform of choice for thousands of organizations around the world. Keys to its continued use are integrated environment, low maintenance cost, high degree of security, high customer satisfaction ratings and ease of use. While IBM i skills are perceived to be diminishing, the need for developers who can work with the platform persists. Organizations continue to seek IBM i experts and CA 2E developers rank among the world's best in this platform.

Solution overview

CA 2E is a leading Rapid Application Development tool for the IBM i. CA 2E provides models, templates and generators, helping organizations increase the productivity of their application developers. The integrated modeling environment of CA 2E helps provide a development methodology that can be easily understood by both business and technical staff. With decades of delivering value to organizations, CA 2E provides stability and reliability in helping the business to curb ancillary costs associated with project timeline changes, resource allocation and training requirements.

Critical differentiators

CA 2E generates 100% of the code required for applications for both client and server, and database objects for IBM i. Developers are not required to know low-level details of the underlying programming languages or database access implementation. Impact analysis and application documentation are embedded, which allows modifications to be easily identified. Multiple developers can work on one project simultaneously, providing marked productivity increases. Modular application development allows new applications to use components created for existing applications. This reduces the time to develop and test CA 2E applications. In addition, it serves as a base for legacy modernization projects including web enablement, transitioning to additional distributed platforms or creating business logic components for use in additional environments.

Panel Designer - Through a WYSIWYG panel designer, you can customize the screen layouts of the application.

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EDIT DATABASE RELATIONS          Base Product Model
=>
? Typ Object          Relation      Seq Typ Referenced object
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FIL Bill of Material  Known by      10 FLD Bill of Material ID
---
FIL Bill of Material  Refers to     20 FIL Part Master
   For: End product          Sharing: *NONE
---
FIL Bill of Material  Has           30 FLD BOM In-force indicator
---
FIL Bill of Material Segment Owned by      10 FIL Bill of Material
   For:                      Sharing: *NONE
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FIL Bill of Material Segment Owned by      20 FIL Part Master
   For: Assembly            Sharing: *NONE
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FIL Bill of Material Segment Owned by      30 FIL Part Master
   For: Component           Sharing: *NONE
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FIL Bill of Material Segment Has           40 FLD BOM Segment assembly lvl
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FIL Bill of Material Segment Has           45 FLD BOM Segment component lvl
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FIL Bill of Material Segment Has           50 FLD BOM Segment quantity
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FIL Bill of Material Segment Has           60 FLD BOM beg effective date
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FIL Bill of Material Segment Has           70 FLD BOM end effective date

More...
Z(n)=Details  F=Functions  E(n)=Entries  S(n)=Select  F23=More options
F3=Exit      F5=Reload    F6=Hide/Show F7=Fields    F9=Add/Change F24=More keys

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Related products/solutions

CA Plex extends CA 2E applications into a number of GUI-based environments through migration or co-existence with this dynamic model-based development environment.

Supportive environment

IBM i

For more information, please visit ca.com/ca-2E

Agility Made Possible: the CA Technologies advantage

Today's business climate requires that organizations have business applications that help improve customer service, reduce costs, increase profits, go to market faster, and respond more rapidly to competitive challenges. CA 2E provides a single, integrated environment that accelerates development projects for mission critical applications running on IBM i. As the platform has evolved into SOA and web services approaches to development, CA 2E has done so as well, providing our customers with application lifecycles that are among the best in the industry.

CA 2E is supported by worldwide customer support, and an ecosystem of expert partners around the world who can assist with services and education. In addition, a large and active CA 2E user community helps connect users globally day in and day out.