

PRODUCT ROADMAP
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CA Gen

Russell V LeClaire
VP, SOFTWARE ENGINEERING

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CA Gen

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Product Mission

CA Gen provides a proven development environment for designing, deploying and maintaining high-performance, scalable enterprise applications. Developers can quickly produce complex business applications that meet rapidly changing requirements. CA Gen allows developers to use flexible methods to design and construct software components, web enable applications, modernize legacy applications and integrate systems.

With over a thousand customers across the globe, CA Gen has helped create mission critical-applications for businesses and governments worldwide. CA has advanced CA Gen as a strategic development platform, delivering new releases and integration with other CA products, always seeking opportunities to add value for our customers and partners.

Product Strategy

Over the years, two of the core capabilities that CA Gen has provided are platform independence and application portability. These core capabilities lend themselves well to integration with many CA products and continue to be important as Java EE and .NET frameworks are adopted and deployed. These two frameworks (meta-platforms) represent significant drivers of CA Gen product strategy. The leading interoperability technology between these platforms (and existing platforms) is Web services, which represents a third major driver of product features.

The current vision for CA Gen includes new features, continued enhancement to existing functionality as well as improvements to the look and feel of the development tools.

Additionally, CA Technologies is investing heavily in Cloud management technologies to enable customers to leverage their existing applications and management investments into cloud

computing. Today, CA Gen customers can run their existing generated applications in several infrastructure clouds including the Amazon EC2 cloud and CA Technologies' 3Tera grid computing technology. We plan to certify other technologies including Microsoft's Azure platform as a service offering in the near future. Our strategy is still evolving as we consider taking advantage of specific cloud API features as well as offering certain CA Gen components, such as the toolset, as a service.

Current Release Status

Release Number: CA Gen 8.0

Version / Build: 0207

Target End of Support Date: May 31, 2015

For details on current features and functionality, please preview the [Product Data Sheet](#).

Functionality to be delivered in Feature Packs

During the development of CA Gen 08.5.00, snapshots of new functionality are captured, tested, beta tested and released against the CA Gen 8.0 release. These features are then released as roll-up PTFs which we call Feature Packs.

Each new feature or functionality included in future releases is subject to change based on a number of factors, including but not limited to internal and external beta testing, development plan changes, and feedback from customers and users. Accordingly, the product may have different features and/or functionality than stated in this Roadmap.

- **CA Gen 8.0 Feature Pack 1:** The following features were included in CA Gen Feature Pack 1, which is currently available:
 - Visual Studio 2010 Support: CA Gen supports compiling generated C applications on Windows using Visual Studio 2010 in addition to Visual Studio 2008.
 - Web View User Interface Customization: Web View now supports adding custom HTML, JavaScript, and Cascading Style Sheets. Users can add custom content using HTML Text and HTML Control objects in the Navigation Diagram.

- Firefox Support for Web View: Web View will now support Mozilla Firefox as a browser to access generated applications in addition to Internet Explorer.
- JBoss Support for Web View: Web View will now support JBoss as an Application Server in addition to Oracle WebLogic Server and WebSphere Application Server.
- Batch Processing for RI Triggers and zLibs: With this feature, common action blocks can be linked for online and batch during the same installation process.
- **CA Gen 8.0 Feature Pack 2:** The following features are candidates for inclusion in CA Gen Feature Pack 2, which is currently planned for 2H CY2011:
 - Customization for Java and C# Proxies: Provides the ability to create custom interfaces to be used with Java and C# proxies. This feature will be available in CA Gen Studio.
 - Support for 64-bit servers on Windows
 - CA Gen Studio Generation for Web View: Configure generation options and generate Web View applications from CA Gen Studio. Other generation options will be included in Feature Pack 3.
 - CFB Extension on Windows, UNIX and Linux (TCP/IP): Removal of 32K limit for client-server data streams (known as Common Format Buffers) on Windows, UNIX and Linux for both TCP/IP and MQ.
 - Web Services Middleware Support (Java): Enable CA Gen clients to consume CA Gen generated Web Services as an alternate option to the traditional communications mechanism between clients and servers. Feature Pack 2 will only support access to EJB Web Services. Access to other CA Gen Web Services (.Net Proxy and CICS Web Services) will be available in the CA Gen 08.5.00 release.
- **CA Gen 8.0 Feature Pack 3:** The following features are candidates for inclusion in CA Gen Feature Pack 3, which is currently planned for CY2012:
 - CA Gen Studio Generation – All Targeted Platforms:
 - CA Gen Studio Data Modeling Phase 1 (Read-only)
 - CFB Extension on Windows, UNIX and Linux (Tuxedo): Removal of 32K limit for client-server data streams (known as Common Format Buffers) on Windows, UNIX and Linux that use Tuxedo.

- Customization for COM Proxy: Provides the ability to create custom interfaces to be used with COM proxies. This feature will be available in CA Gen Studio.
- BLOB II: BLOB Phase I was released in Gen 8.0 and defined the BLOB data type. Phase II provides access to all databases supported in C Applications (DB2, Oracle, DB2, SQL Server (ODBC).
- CICS Web Services: Additions to the Web Services capability would allow you to generate server procedure steps as Web services for selected target platforms. This capability is intended to publish CA Gen server managers as Web Services. The generated Web service is planned to conform to the WS-I basic profile and will not have a 32K limit.

Next Release

CA Gen 08.5.00

Planned New Features/Functionality in the Future

Each new feature or functionality included in future releases is subject to change based on a number of factors, including but not limited to internal and external beta testing, development plan changes, and feedback from customers and users. Accordingly, the product may likely have different features and/or functionality than stated in this Roadmap.

The following features are candidates for inclusion in CA Gen 8.5, which is currently planned for CY2013. Note that several of these features will have been introduced in one or more Feature Packs against the Gen 8.0 release.

- **BLOB Support:** CA Gen generated applications would be able to use BLOBs natively. For deployment environments without a view size limit, we plan to support binary large database objects (BLOBs). This enhanced functionality would support applications, which need to present images (BMP, JPG, GIF, etc) to the client or store other types of binary objects.
- **CFB Extension:** Our plan is to introduce, over time, new elements of CA Gen (server managers, supporting runtimes, etc.) that would have no view size limits. These elements of CA Gen would need to co-exist with existing, view size-limited elements of CA Gen to allow for a graceful transition of production environments to take place. Currently, applications

generated entirely for Java have no view size limit. In a similar manner, applications currently generated entirely for the .NET environment have no view size limit. Similar capability will become available for other portions of the CA Gen infrastructure in Feature Packs. The z/OS 32K limit will be removed in CA Gen 8.5.

- **Web Services consumption as an alternate Transport:** This option enables CA Gen clients to consume CA Gen generated Web Services as an alternate option to the traditional communications mechanism between clients and servers. This mechanism would not have a 32K limit on the size of the message transported. The CA Gen Web Services include EJB Web Services, .Net Proxy Web Services and CICS Web Services.
- **Customizing Gen Proxy Interfaces:** The PStep Interface Designer introduced with Gen Studio in CA Gen 8.0 allowed users to provide alternate interfaces for PSteps that were targeting EJB Web Services applications. The alternate interfaces were customized versions of the original PStep interface and could include hard-coding, renaming, or changing the order of selected attributes. The customized interfaces were then saved in the model. In Feature Pack 2 and subsequent releases the CA Gen proxies would similarly be able to take advantage of the customized interfaces to provide more user-friendly alternate interfaces.
- **Support 64-bit server applications on Windows:** Provides support for 64 bit generated server applications on Windows 64 bit operating systems.
- **CA Gen Studio - Code Generation Designers:** Generate code from CA Gen Studio rather than the existing toolset. The existing toolset generation capability will continue to exist.
- **CA Gen Studio - Data Model Designer:** This planned addition addresses the most often requested enhancements and improves usability and readability of the existing toolset Entity Relationship Diagram. This completely new implementation would use the same meta-model as the ERD in the toolset. Diagrams would be alternatively edited in the CA Gen Studio Data Model Designer and the ERD in the toolset. This planned implementation features a model navigator, one or more view windows, an overview window and property sheets – all configurable to your preferred way of working. Printing, display, scroll, zoom, list and table sorting facilities services in the planned ERD are provided by the underlying Eclipse foundation

resulting in a contemporary user interface experience. Font and color selection as provided by the underlying operating system would allow you to select those fonts and colors most pleasing to you. Additionally, this planned implementation will store the endpoints and turn points of relationship lines – potentially providing you full and persistent control over the aesthetics of the diagram. WYSIWYG print is also planned.

Removed Features/Functionality

To provide visibility, and allow customers to appropriately plan, the following features will likely be removed or modified in the release indicated.

The CA Gen 7.6 version of TCP/IP Direct Connect option for IBM CICS® ships both the TICOM Manager and the Socket Listener implementations. Beginning with the CA Gen 8.0 release, the TICOM Manager version of the product will no longer be provided. If you plan to use the CA Gen 8.0 socket listener and are currently using either an earlier release of the Comm Bridge or the Client Manager, you will be required to run the CA Gen 8.0 version of these products.

Based on public roadmaps from HP, CA Gen 8.0 is the last release supporting HP-UX 11.11 (11i v1) and HP-UX 11.23 (11i v2) on PA-RISC based hardware.

CA Gen 8.0 and later releases will not support IBM DB2® on HP-UX platforms.

Product Direction

CA's goal is to continue to improve CA Gen to reduce the overall cost of maintaining the technical infrastructure and the businesses that rely on it. To achieve this we plan to focus on three key areas including:

- Modernize and Enhance the Design Tools
- Keep Pace with Evolving Technology
- Make CA Gen Upgrades and Application Migrations Easier

With these areas in mind, some additional potentially new features under consideration for future projects include:

- **CA Gen Studio - New Action Language Designer:** A new action language designer is planned as an Eclipse plug-in. The new designer will have contemporary context sensitive text oriented language editing capabilities. The editor would supply support for syntax checking and suggestions, formatting, keyword coloring, copy and paste, and drag and drop.
- **New z/OS Build Tool:** a build tool which does not require DB2 as its data store and has many new features.
- **New UI Designers:** CA Gen's strategy for providing UI designers going forward is to call best in class UI designers from third party tools. This would allow customers to leverage state-of-the-art user interface features. Any use of 3rd party designers will be integrated and seamless. Another objective is to make sure that the user interface components are abstracted to enable CA Gen to migrate models to new UI designers in the distant future.
- **Accessibility:** Accessibility (Section 508 in the US) is a set of regulation and guidelines that govern the specifications for making user interfaces accessible to people with disabilities. CA Gen's generated applications already comply with these specifications and CA Gen Studio itself will comply as its various components are released. For detailed information, please contact your account directors.

To open a request for a future enhancement please open a technical support issue via [CA Support Online](#) and detail the business and/or technology challenge that you are experiencing as well as your suggested solution. An overview of the CA Service Desk specific enhancement request process is available on the product home page on [CA Support Online](#).

Platform, Database and Language Support

An overview of this solution's supported databases, platforms, operating systems, devices, and system requirements can be found on the product home page on [CA Support Online](#).

CA Gen is supported on the following hardware platforms and operating systems¹. No additional platform support is planned for CA Gen 8.5.

- x86 hardware running Windows 32 and 64 bit operating systems with 32 bit client/server applications and 64 bit server applications
- x86 hardware running 32 bit SUSE® Enterprise Linux or Red Hat® Enterprise Linux® operating system
- IBM® z/Architecture® hardware running the z/OS operating system
- HP-UX on HP Integrity® servers for 64 bit generated applications and a 64 bit Client Server Encyclopedia
- Sun Microsystems SPARC™ hardware running Solaris® operating system
- IBM System p5®, IBM System p6® and IBM System p7® hardware running IBM AIX® operating system

¹ Please consult the CA Gen Technical Requirements for the specific set and versions of supported hardware and software.

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