Solution Guide

Profound Logic

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When I founded Profound Logic Software more than 15 years ago, my vision was to be the leader in IBM i modernization and development. Our goal was to create solutions that enable IBM i developers to reuse their development talent and business logic, while giving business users the modern, intuitive desktop and mobile interfaces they prefer. We believe in the power of the IBM i, and wanted to let businesses know they didn't need to leave the platform in order to modernize their interfaces.

Alex Roytman, CEO
Profound Logic Software

I'm proud to say that we did not just accomplish this goal— we went above and beyond it.

Profound Logic became the innovator that paved the way for today's "standard" of IBM i application modernization. We invented the first handler for RPG Open Access, and received a patent for the graphical Visual Designer found in our products. And we continue to innovate with tools for PHP and Open Source development.

This Solution Guide covers the many ways that our products and services combine to address your modernization needs. You can contact us to learn more by calling 1-877-224-7768 or by sending us an email at sales@profoundlogic.com.

We look forward to helping you achieve your modernization goals!

Alex Roytman

Alex Roytman CEO, Profound Logic Software

Profound Logic Solutions

Profound Logic Software provides solutions to address the three key areas of IBM i application modernization. Our products and services combine to enable you to:
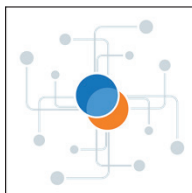
Create

- Modern desktop and mobile application interfaces
- New web and mobile applications
- Modern RPGLE and PHP applications

Enhance

- Web enable green screens on-the-fly
- Convert legacy DDS code to Rich Displays
- Transform green screen menus into modern web application menus

Extend

- Provide and consume Web Services
- Ensure secure web and mobile access to IBM i
- Deploy stateless applications

We offer an **Enterprise Modernization Solution** that encompasses the modernization of your green screens, your database and RPG code – the three components of your system that need to be modernized. The fourth component - your IBM i server - is already the most powerful and reliable system available on the market.

Application Interfaces		RPG Code & Business Logic		Relational Database

Our partnership with Arcad Software provides an "end-to-end" modernization solution that includes:

• **Profound UI Suite:** Delivers modern desktop and mobile application interfaces using RPG or PHP

• **ARCAD-Transformer DB:** Converts DDS to DDL for a modern, relational database structure

• **ARCAD-Transformer RPG:** Accelerated conversion of RPG applications to Free Format

This is the most cost-effective and lowest risk option available for system-wide modernization, especially when compared to the alternatives of migrating to a new platform or rewriting your entire system using another language, like Java or .NET.

"Modernizing our enterprise with Profound Logic and Arcad has resulted in a tremendous amount of positive feedback from our business users and the business as a whole. Applications are more intuitive to our business users, and the management of our development environment is more automated with fewer errors.

- Don Johnson, Sr. Solutions Architect Kenco Group

Rich UI Modernization

Modern, Web browser-based applications are the norm in businesses. 5250 green screens don't just look old, they give the perception that the IBM i itself is outdated. It's also been shown that training new employees on green screens takes more than twice as long than on modern, web interfaces!

Now it's possible to demonstrate the power and reliability of the IBM i platform while giving end users the modern applications they expect. Our **RPG Application Modernization** solution gives you the power of **RPG Open Access** to take your existing RPG applications off of the 5250 stream and onto Web and mobile devices. Our tools are easy enough to learn and use that you can modernize your own applications. However, if help is needed, we offer **RPG Modernization Services.**
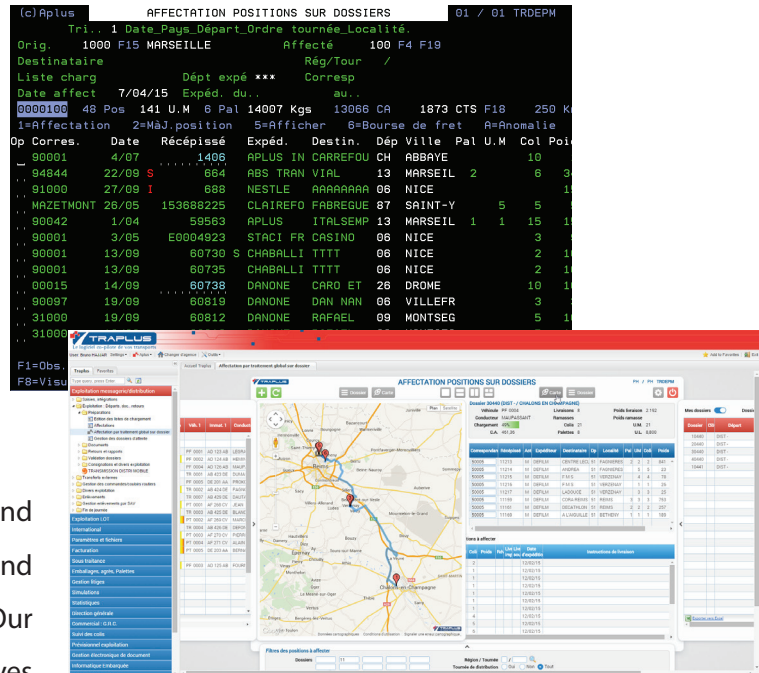
Transform outdated green screens into modern, feature-rich applications

Benefits

• Make end users more productive and efficient, with applications that are easier to learn and use

• Improve the perception of the IBM i platform in your business

• Increase application adoption

• Add the functionality of over 125 Rich UI widgets to applications, including tab panels, scrolling and sorting columns, buttons and maps

Rich Web Development

Take your modernization efforts to the next level. Our **Rich Web Development** solution makes it easy to create new RPG and PHP applications that integrate with your existing IBM i applications.

This solution gives you everything you need to create modern, browser-based applications, no matter what your proficiency is with Web development languages like HTML, CSS or JavaScript. Better yet, it uses our **RPG Open Access Handler** to give you truly modern applications with no ties to 5250!

Benefits

Boost End-user Efficiency
Give employees and customers the modern, Web and mobile applications they are accustomed to.

Save Money and Time
Use the talent, RPG assets and hardware you already have. There's no need to outsource develop-ment or migrate to a non-IBM i platform!

100% Native to the IBM i
Put the true power of i to work in your business! Profound UI eliminates the need to use Java, .NET, Windows clients, or other non-native technologies.

With cutting-edge tools like Profound UI that support RPG Open Access, there's literally no limit to our growth or acquisition of new technologies while using our existing IBM i systems.

- Justin Porter, Technology Director, Westside Produce

Mobile Applications

By making your IBM i applications available on mobile devices, you're empowering your workforce to access vital business information when and where they need it. Mobile applications support your remote workers, such as your sales team, and can even help your customers interact with your business more efficiently.

With our **Mobile Application Solution,** you can deploy high-quality mobile applications using the same toolset you use for Web applications – **Profound UI.** Your IBM i applications will work on any mobile device or tablet, and use native device capabilities, such as Camera, Geolocation, or Tap-to-Call. Best yet, there's no need to invest in separate tools, hire a mobile developer, or learn complicated native device programming languages, like Objective-C or Java!

Benefits
• Support your employees and customers with secure, "anywhere access" to
  applications
• Integrate features like Camera, Signature Pad and Maps
• Eliminate the need to learn native mobile languages for Android, Apple or
  Windows devices
• Develop mobile applications using the same toolset and development skills you
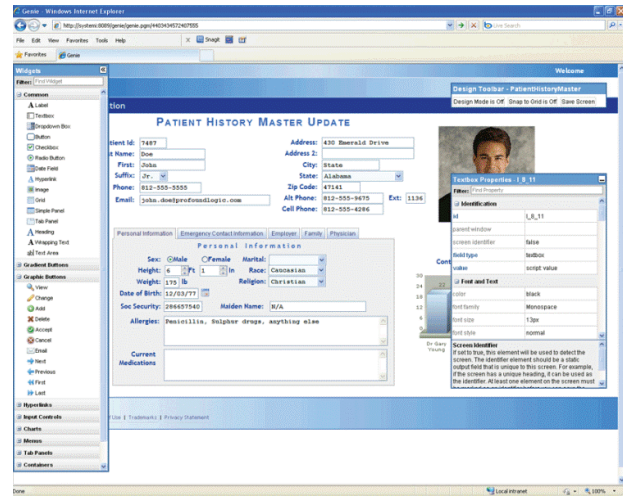 use for IBM i Web applications

We could see that mobile would greatly benefit our out-of-office employees. Profound Logic made the process easy, and their mobile development services made sure we could deliver a high-quality mobile application to our users.

- Nancy Lorch, Manager, SANDIS, San Diego Regional Center

On-the-Fly Modernization

When modernizing RPG applications, you may opt to web-enable (also known as "screen scraping" or "refacing") your 5250 applications. This approach gives green screens a modern look without investing heavily in development time and tools. Web-enabling 5250 applications can also act as an option until such a time that full application conversion can take place.

Quickly add a graphical interface to 5250 green screens.

Profound Logic supports this approach with our **Web Enablement Solution.** This solution provides on-the-fly green screen modernization with an intuitive, non-intrusive method for modernizing all of your RPG, menu, and system screens. When you're ready to take your applications to the next level of modernization, this solution seamlessly integrates with Profound Logic's other modernization solutions.

Benefits
• Make end users more productive and efficient, with applications that are easier to learn and use
• Improve the perception of the IBM i platform in your business
• Increase application adoption
• Add the functionality of over 125 Rich UI widgets to applications, including tab panels, scrolling and sorting columns, buttons and maps

Profound Logic Services

Profound Logic Software is committed to seeing you succeed in all of your modernization and web development projects. We offer customized consulting services to handle all of your modernization needs. In addition, we offer on-site training to help you grow your internal talent. You can feel confident that our team is well-versed in the latest IBM i and Web technologies.

Our services include:

| **Enterprise Modernization**	Turn your IBM i applications into open, modern, and agile systems by modernizing your backend code, upgrading your database, and transforming your user interface through this comprehensive service from Profound Logic. This "End-to-End" approach ensures your development team can meet the evolving needs of your business while fully realizing the power of the IBM i platform.
Mass Conversion	A professional service in which all green screens are eliminated and are reengineered into modern Web applications driven by HTML5, CSS3, and JavaScript, without screen-scraping.
New Desktop Application Development	Profound Logic will create beautiful new web-based desktop applications that meet your business requirements and IBM i modernization standards.
Genie Skin Creation	Save time and effort! Let our team quickly deploy your green screens in a Web browser using Web design and UX best practices.
Web Services	Support a connected business by integrating REST and SOAP Web Services to provide and consume data through your applications.
On-site Training	Training sessions with our qualified experts assure your IBM i modernization projects go smoothly.

About Profound Logic Software

• Founded 1999

• Over 1,000 customers worldwide

• Developed the first UI modernization Handler for RPG Open Access

• Holds a patent for Visual Designer

• Locations in Ohio and California, with partners in UK, Germany, France, Italy, South America and Australia

We have customers in every industry, that include:

" *We were looking for a company who could be a strategic partner. The price point combined with the quality of their products and the dedication of their services team made choosing Profound Logic an easy decision.* *"*

- Rick Welage, Director of IT Applications, WinWholesale
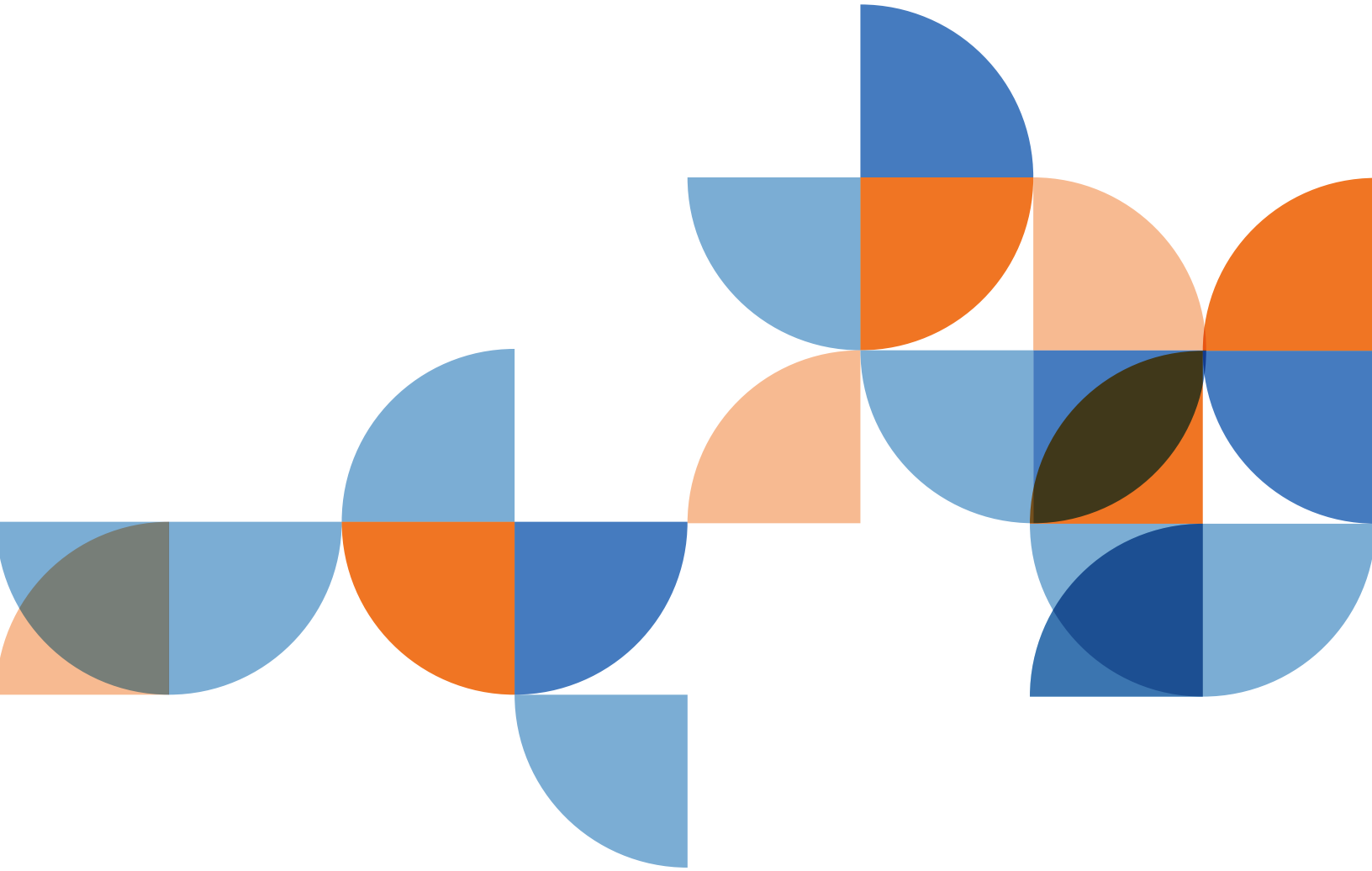
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