



RECLAIM AND EXTEND

Legacy Applications with Database Modernization

UNLEASH YOUR DATA VALUE

Adsero Optima™ modernizes DB2 for i databases and provides a solid SDM (Strategic Data Management) /MDM (Master Data Management) foundation to facilitate the adoption of a wide spectrum of advanced technologies, whilst improving the quality and integrity of your heritage data.

WHY MODERNIZE YOUR IBM i SOFTWARE ASSETS?

IBM i shops striving to remain competitive face several challenges: skyrocketing costs constrain IT budgets; they must retain and leverage the many years of intellectual property invested in their legacy or heritage systems; they need to improve and leverage the data contained in their heritage application data base, and they need to leverage major advances in database engine technologies, analytics, cloud and mobile computing.

Deploying a modern architecture and migrating to the powerful SQL engine natively (versus the use of surrogates) provides a solid foundation for lasting modernization and agility. Clients benefit from a more open IBM i infrastructure, application extensibility, superior application functionality, performance, and greater alignment with the changing and competitive needs of the business.

Until now, the perceived risk and complexity of the database modernization process caused many organizations to continue to use the legacy ISAM (DDS/CQE) engine as their primary database access method. Until now, these same organizations found themselves unprepared for growth – burdened by legacy systems, skills shortages and processes that have surpassed their usefulness in accelerating business growth; until now...

Introducing Adsero-Optima (AO).

ADSERO OPTIMA MODERNIZATION SUITE:

1. AO Foundation
2. AO Open

THE ONLY TRUE, NATIVE DATABASE MODERNIZATION SOLUTION FOR IBM i

Adsero Optima (AO)™ transforms IBM i environments running legacy databases to optimized installations that exploit latest technologies. AO achieves this with minimum disruption using a low-risk, gradual modernization process to ensure no loss to business continuity.

AO™ facilitates legacy database modernization from the current ISAM CQE format to the powerful native SQL database engine. This happens without implementing surrogates, without Level ID changes (in Phase 1) or necessarily access to source code, and without any risk and downtime.

AO facilitates the gradual adoption of a data-centric, multi-tier (MVC) application architecture.

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EXPLOITING THE LATEST TECHNOLOGIES

- Leverage the powerful DB2 SQL engine for a whole new level of application versatility and agility and deliver huge improvements in application performance.
- Mobilize your business and access your applications from any device, anywhere, anytime.
- Leverage analytics to predict and solve complex business problems, improve decision-making and realize cost savings.
- Provide a solid platform to implement SDM (Strategic Data Management) and MDM (Master Data Management) management practices, all based on a central Metadata Repository.

ADSERO OPTIMA FOUNDATION (AOF)

The core migration and management engine that delivers a fully functional and modern DB2 database, key for leveraging business analytics, cloud and mobile computing.

AOF automatically assist with the migration of the legacy ISAM-like database engine (with Record Level Access {RLA} or “native IO” DDS supported by CQE) constructs to the native SQL database engine (DDL and DML supported by SQE) incorporating sound risk and SDM/MDM management principles.

The migration process includes the complete recovery of all structural metadata and metadata (with or without underlying source code), and provides tools, processes and guidelines on how to “sanitize”, consolidate and gradually start improving and enriching the metadata.

Central to the AO modernization roadmap and process, is our central Metadata Repository, or data dictionary, which forms the foundation of leveraging your heritage application components and artifacts.

Sanitize, consolidate and reduce heritage code base by up to 80%, reducing code complexity and improving code readability and maintainability.

AO™ controls and guides the process of moving database validations and relationships out of the underlying heritage programming language (RPG code) and into the database engine with full central management.

This may translate into an up to 80%+ reduction of the heritage code base, thereby reducing complexity and improving code readability and maintainability. A more expressive internal architecture facilitates improved application extensibility and agility. The remaining code represents the business-unique logic. These are the “gems” of business functionality which represent the application’s true competitive advantage. AO™ gradually facilitates the componentization of these discrete business rules, and leverages NATIVE, RPG rendered HTML to provide generic UI components for device agnostic user interactions. These are used by programmers to seamlessly blend the back-end application modernization processes for use with the new UI.



BENEFITS

- Capitalize on existing IBM i assets and extend the value of heritage applications
- Improve company's agility to meet business-critical demands
- Leverage technology advancements
 - Mobile
 - Cloud
 - Analytics
 - PureSystems
- Reduce operational constraints (eg. maintenance backlog)
- Address skills shortages
- Deliver +50% performance improvement
- Provide a full audit trail to meet business and regulatory compliance requirements (eg. SOX)
- Deliver acquisition and operational cost savings and a rapid ROI*
- Reclaim your heritage, and your competitive edge

AO™ then facilitates the introduction of multi-tier architecture (or Model-View-Controller - MVC) in modernized applications. This achieves separation of code in the database (M), user interface (V) and business logic (C) resulting in improved application agility and maintainability.

ADSERO OPTIMA OPEN (AOO)

Provides a NATIVE IBM i based environment for delivery of a rich user interface for access from any device, anywhere, at any time.

AOO delivers a native device-agnostic user interface (also known as “delivery channel”) with dynamic, adaptive multi-channel user interface rendering, into a central Portal. This enables easy support of rich, thin (or fat) user interfaces on mobile devices, browsers and potentially any future disruptive technology. Developers can then rapidly (but gradually) convert entire green screen applications for improved end user productivity, focusing on maximum ROI achievement.

The “AOO OnePoint Portal” is a framework for user authentication and access to all of your web-based applications.

We think you will be impressed by the speed, ease of use, power, functionality, and scalability of the portal and the applications that we deploy within it. Perhaps more importantly, we hope that we can provide you with something that fits your goals as an organization and gives you a solid return on investment.

Often the question comes: “Is this really running on an IBM Power System?” We assure you that it is – we pride ourselves on streamlined programs. Your IBM server is already a great value, and we will help you get even more out of it. Some of the other characteristics you will find in “AOO OnePoint Portal” includes:

- Single point authentication
- Browser based run-time environment
- Inuitive Navigation and Menus
- Finite and granular Administration Control
- Integrated, centralized application deployment
- Built-in functionality – the portal uses a centralized architecture to define and store the common data used by all of our applications

** compared to new technology or re-write, delivers +70% savings based on early adopters.*



Operating System Support

Adsero Optima (AO) supports IBM i V6R1, V7R1, V7R2 and V7R3 as preferred releases, and supports V5R4M0 on special request.

Customers remaining on earlier releases may still achieve full migration to the native SQE (SQL personality of DB2 for i defined using DDL), but need to contact us to discuss the best way to achieve this.

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Preserve and extend legacy applications with a database modernization approach:

Through native database modernization, it is possible to implement a solution with minimum disruption using a low-risk, gradual, iterative process to ensure no loss of business continuity and to support parallel databases during the process. This iterative, gradual and non-disruptive process allows implementation without the use of surrogates, without Level ID changes (in Phase 1) or necessarily access to source code (for maximum ROI and value, you will need the source code if you want to completely modernize your application). This can be achieved with minimal risk or down time.

The final result is a modern application architecture with a clear separation between the database, the user interface and business unique application logic. This means that companies can reclaim their agility, regain their competitive advantage and respond more rapidly to changes in the business environment.

For more information, visit www.adsero-optima.com

The following video may also provide you with additional background:
<https://vimeo.com/93652272>

Reclaim Your Heritage. Unleash Your Data Value.

