



# ASNA MONARCH<sup>®</sup>

Staged modernization of IBM<sup>®</sup> System i<sup>™</sup> applications to the Microsoft<sup>®</sup> .NET Framework

ASNA Monarch<sup>®</sup> transforms System i programs or applications originally written in ILE RPG or RPG/400<sup>®</sup>, into a native Microsoft .NET application. For a complete re-platforming, Monarch even migrates your System i database to SQL Server<sup>™</sup>.

## Green-screen applications migrate to browser based applications ASNA Monarch Migration Process

Monarch translates the RPG<sup>®</sup>, as well as the display files, and the resulting project is a free-standing .NET application that performs the same core functions as its green-screen ancestor.

## Applications can communicate directly either with a System i database or Microsoft's SQL Server

Whether you simply want to re-host your applications on .NET and continue using your System i database or if your goal is full-scale migration off the System i platform, Monarch will do the work for you.

## Business benefits of Monarch

### Fastest time to market

Once you have identified the applications to migrate, Monarch takes System i RPG programs, display files, CL, menus, message files, data areas, printer files and data files to .NET in a matter of minutes. You don't need to populate a secondary repository or otherwise prepare the original program, they are ready to go as is.

### Managed migration

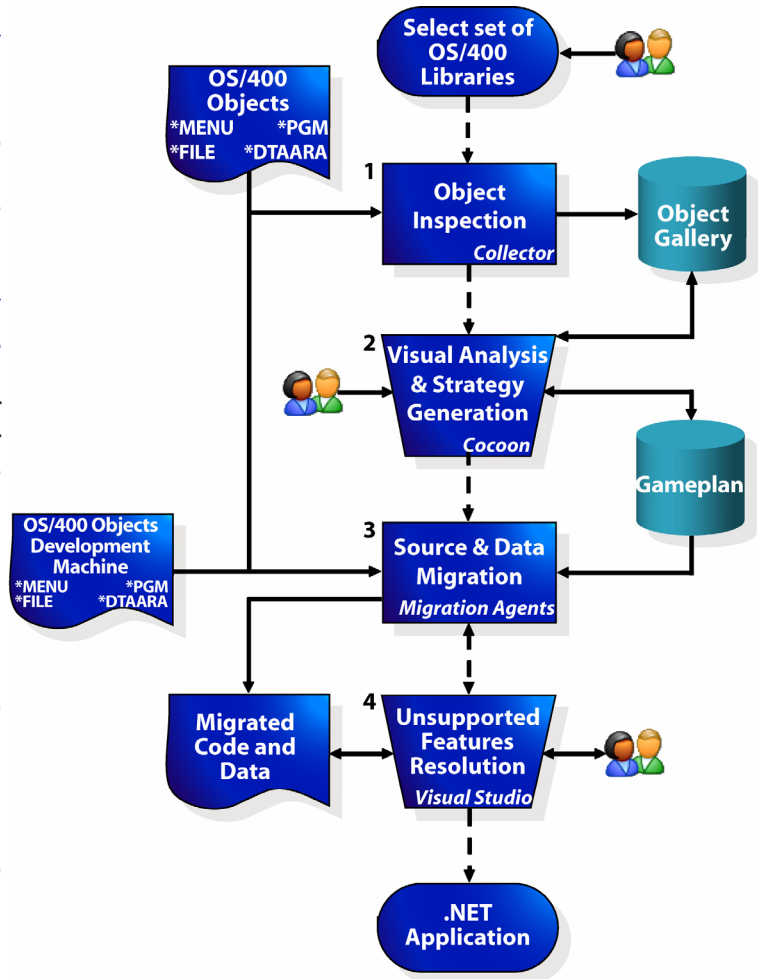
Monarch has built-in metrics to help you identify hotspots that have the potential to require more hands-on migration work. This "density" factor is designed to help you quickly identify those programs that will move quickly from those that will need additional work.

### Migrates to industry standards

Monarch migrates your interactive 5250 programs to ASP.NET browser-based applications running in IIS 6.0.

### Best ROI for modernization

Not only does Monarch reuse your source code, but, because that source persists as RPG, your existing RPG development team retains "ownership" of the newly-hosted .NET programs. There is no Java<sup>™</sup>, Visual C++<sup>®</sup> or Visual C#<sup>®</sup> code generated. It is 100% ASNA Visual RPG<sup>®</sup> and 100% maintainable by your existing RPG programmers.





## Monarch Migration

### Monarch Cocoon - start the transformation

The ASNA Monarch Cocoon is a .NET application that interrogates specified System i libraries for programs and program dependencies. You use this information for discovering program dependencies, analysis, and migration planning. Cocoon takes only a few minutes to run and provides information such as:

**Program call graph** - to spot program object dependencies on other OS/400 program objects (i.e., called programs and system APIs)

**Cross-referenced object usage** - to identify what programs use what objects (such as files, data areas, etc.)

**Host RPG source view** - to take a quick look at the underlying host source code

**Density factors** - to provide the metrics on the "migrateability" of any given program. These factors help you plan and allocate migration resources

**Notes display** - a "diary" area to record notes about each object discovered

*"We needed to migrate our legacy RPG applications to .NET. It would have been an overwhelming task to rewrite all 1,000 programs in .NET. Using ASNA Monarch makes that migration a snap. There is really no comparison for having Monarch do it automatically."*

--North Carolina State Bar

*"I just wanted to let you know we successfully migrated our first series of inquiry programs for the county access system in one afternoon."*

--Infocon Software

### Monarch Gameplan creator

The Gameplan is where migration starts. You create a Gameplan for each application subsystem you migrate with Monarch. The Gameplan specifies program attributes such as library lists, the program entry point, and the active database platform.

### Monarch Migration Agents

During the migration process, Monarch invokes each agent on an as-needed basis to execute the corresponding migration task. For example, the RPG agent generates the appropriate RPG source and then directs that source into an ASNA Visual RPG for .NET project.

### Monarch opens the project in Visual Studio® .NET and compiles it for you.

*"Having studied the market for over two years at a variety of ways of moving our multi-module ERP solution forward, we decided to modernize using ASNA technology."*

*We didn't want to re-write our 17,000 programs in a new language; so following an ASNA Monarch proof of concept we realized that the RPG to RPG .NET conversion utility was the way forward."*

- AiM Software Limited

### Just the beginning

Monarch is much more than a simple-source migration facility. Monarch is a comprehensive set of tightly coupled technologies that analyze your System i applications and moves them to Microsoft .NET.

While retaining the value of your System i investment, Monarch not only breathes new life into your existing System i application portfolio, it also provides your enterprise's entry point into the exciting world of .NET, Web Services and Service Oriented Architecture.