

# AYUNTAMIENTO DE MADRID

The Madrid City Council (Ayuntamiento de Madrid) is the public administration institution that manages the economical resources, employment, health care system, environmental campaigns, social services and overall public affairs within the capital of the Kingdom of Spain, Madrid. The city provides services for about 4.500.000 citizens.

Within the organization structure of the city council there's a specific IT department dedicated to provide support to all areas of the institution. That department is the C.E.M.I. (Centro Municipal de Informática). The information system department develops and implements software solutions requested by the Madrid City Council. Generally speaking, there are two main existing applications that have been developed on AS400® systems.



One is the system for general management and census (registrations, drops, modifications certifications, and general information). The second one includes the management of the city facilities and environmental resources (stranded vehicle collection, urban waste collection, pollution problems, etc).

The strategy of the Madrid City Council included the conversion of all user interfaces from 5250 screens to a web-enabled application. The main objectives were to ensure that the future developments would allow the integration and updating of the existing developments, and to serve its employees their internal applications the same way the citizens can access all the City Council services through its web portal [www.munimadrid.es](http://www.munimadrid.es).

## PROJECT BACKGROUND

The client had an information system application based on RPG on AS400® for the public administration area. The Madrid Council had a management application, developed by C.E.M.I., for the Human Resource & Attendance Control that needed to be changed into a more updated technology.

Our client faced the need to change all DSPF's to a more user friendly technology and, at the same time, enable Internet features in the current application. To carry out this work, they used Caravel™ Active WebFacing. This advanced programming tool is a customization tool for the

application interface. As an objective they had the automatic conversion of all application screens developed on AS/400® to be executed on browser utilizing IBM® WebFacing. Among other relevant features, Caravel™ Active WebFacing, performs an entire recognition of programming interface patterns. That process allows to project changes over a general layout that will be replicated into every single screen.

The project includes an exhaustive training on the Caravel™ Active WebFacing tool. The final aim of the client is to perform a step-by-step movement to Java™. Its technicians will start redefining the application interface. This process will help in reaching some Java™ expertise as the first step for an entire application conversion to Java™.

## SCOPE OF THE PROJECT

The project scope includes:

- Conversion of interfaces without changing original platform.
- Conversion of all DDS (including all DSPFs and PF's and LF's) to XML and Java™.
- Redefinition and design of interfaces to create a more user-friendly interface.
- C.E.M.I. will utilize license of Caravel™ WebFacing Converter for future developments.

## CLIENT BENEFITS

- Web-enabled graphical interface for all users.
- Utilizing Caravel™ WebFacing Converter to change new developments and possibility of implementing new functionalities.

- Ensuring a solid technological future for its application by integrating with the programming trends in Java™.
- Neither changes in platform, nor investments in hardware.

## ORIGINAL PLATFORM

- Programming language: RPG/400® and Cobol.
- Operating System: OS/400® V4R2M0.
- Hardware: IBM® AS/400®-810.
- Number of objects: 284.

## FINAL PLATFORM

- Programming Language: Java™.
- Programming Tool: Caravel™ Active WebFacing.
- Application Server: WebSphere®.



# BASE100

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