



Success Story

Project Name: BancoEstado - Configuration Console

Customer: Microsoft Chile.

Platform: .NET 3.0



May, 2008

Situation

Based in Chile, South America, BancoEstado is one of the major banks in Latin America, listed in the top 100 companies from Chile and with more than 300 offices in the country. Founded in 1855, its vision is to provide massive financial services in Chile and the globe with an efficient model, through the use of state of the art technologies and methodologies, and a first class customer service.

More than 1000 software pieces are developed every year by BancoEstado and its IT providers to achieve their goals and objectives.

Microsoft Chile is providing a specialized consultancy service to build a common framework on top of the .NET platform, aimed to provide a core set of libraries and transversal logic for managing configuration, logging, exception handling and security, among others, for all the .NET software applications developed for the organization.

Applications configuration and execution is managed by this core framework, currently on its second release version, and configuration settings for each application are stored in the form of XML configuration files, in several configuration repositories, most of them residing in SQL Server databases.

This enormous set of configuration files were being maintained by administrators with a custom developed Windows application. This application had a mechanism to add predefined XML fragments of configuration to a single file, requiring manual work to edit the XML fragments, a deep knowledge of its complex structure and additional effort to distribute the files to their final location for each application. It is worth emphasizing that this mechanism was error prone and the slightest configuration error could make the applications crash.

Solution

The solution proposed by UruIT, Microsoft Chile's partner, was to develop a new .NET configuration console, with a friendly user interface and a new set of features for maintaining and creating new configuration files for all the applications, without requiring any knowledge of XML or manual work.

The new Configuration Console was built on top of the Microsoft .NET 3.0 framework [™], with support for multiple versions of the core. Application's configuration settings can be loaded to the console from the data repositories, and saved back or published to a different data configuration repository directly from the console.

This new application exposes a neat and user friendly interface with:

- A customized navigation control to simplify the browsing of configuration sections and attributes
- Copy and paste functionalities
- Search, replace and comparison of configuration files
- Import and export
- Reports and repository management
- Structure validation and values validation

Additionally the new tool will be deployed to the clients by means of Microsoft ClickOnce[™].

Consola de Configuración

Archivo Repositorio Acción Reportes

Aplicaciones

- Application_1
 - Logging
 - Listeners
 - EventCustomTraceListener1
 - SQLCustomTraceListener1
 - XmlFileCustomTraceListener1
 - Categories
 - MyCategory1
 - EventCustomTraceListener1
 - MyCategory2
 - EventCustomTraceListener1
 - Filters
 - MyFilter1
 - MyCategory2
 - Connection Strings
 - MySQLDatabase1
 - MyHostDatabase1
 - Data
 - Databases
 - MyHostDatabase1
 - Caching
 - Cache Managers
 - MyCacheManager
 - Application Settings
 - MySetting1
 - MySetting2
 - MySetting3
 - Exception Handling
 - Handle and Resume Policy
 - BancoEstadoTechnicalException
 - Logging Policy1
 - BancoEstadoException
 - Logging Handler1
 - Application_2
 - Authorization
 - Authorization Providers
 - DefaultAuthorizationProvider1

Varios

ConnectionStringValue

Name NUM_RUT=4941104;DV_RUT=9;OFICINA=00;IDE_ESTACION=3276;

ProviderName MyHostDatabase1
BancoEstado.Cors.Data.HostClient

Host Connection String

COD_TRX_CICS	
COD_SISTEMA	
NUM_VERSION	
TRX	
MODDO	
NUM_RUT	4941104
DV_RUT	9
OFICINA	00
IDE_ESTACION	3276
APLICACION_ORI	
IDE_SUPERVISOR	
TIPO_OPERACION	
FECHA	
HORA	
NRO_JRN	

Aceptar Cerrar

Nodo	Propiedad	Aplicación
EventCustomTraceListener1	Type	Application_1
SQLCustomTraceListener1	Type	Application_1
XmlFileCustomTraceListener1	Type	Application_1
MyFilter1	Type	Application_1

Se encontraron 12 ocurrencias

Benefits

With this solution, BancoEstado IT department will have a unique tool for managing all configuration files in a centralized manner.

Administrators will be able to identify configuration issues and to easily update applications to work on every newer version of the core framework.

This will help reduce the time and maintenance costs of installing new applications on top of the core and BancoEstado ESB, also reducing execution errors due to configuration inconsistencies.