

# Case Study



**Customer Name:**  
Mizrahi-Tefahot  
UMTB

**Headquarters:**  
Tel-Aviv, Israel

**Line of Business:**  
Banking

**Number of  
Employees:**  
3,000

[www.mizrahi-tefahot.co.il](http://www.mizrahi-tefahot.co.il)

## Database Development and Deployment Case Study

The Sarbanes-Oxley Act, passed in 2010, requires banking and financial institutions to conduct proper information technology management in their businesses. In regards to databases specifically, financial corporations are required to document records of all the changes that were made to company databases, as well as maintain their previous versions.

- DBmaestro TeamWork Change Policy Enforcement
- DBmaestro TeamWork Deployment Automation
- Regulatory Compliance
- Database Recovery
- Agility and Quality

### About Mizrahi-Tefahot

Mizrahi-Tefahot Bank is one of the largest banking institutions in Israel with hundreds of branches and over 3,000 employees. The bank runs dozens of production databases and hundreds of development databases.

### The Challenge

The requirements outlined in Sarbanes-Oxley Act, as well as a lack of development best practices, presented Mizrahi-Tefahot Bank with the following challenges:

- **Managing Production** – The bank did not have a structured method for following and tracking the changes that were made in their databases (as it did in the application code). Thus, they were unable to gather the information regarding who made changes, when they were made, and why.
- **Version Control** – The bank was required to back-up and to support roll back to previous database versions.
- **Unplanned Downtime Prevention** – The bank sought to proactively prevent

unplanned downtime and errors in the databases

### The Solution

In order to comply with the various regulations, Mizrahi-Tefahot Bank was compelled to find a solution that would fit their needs. They found that solution in the DBmaestro suite. Mizrahi-Tefahot Bank found that DBmaestro enforces the version control process, ensures the validity of database deployments, and provides easy access to older versions in the event of a database failure.

They recognized that with DBmaestro, a product built specifically for managing database code changes without the need for other third-party solutions, their needs were addressed. The Database Administrators (DBAs) at Mizrahi-Tefahot Bank were also easily able to realize DBmaestro's value proposition, which specifically addressed the unique requirements of database development and deployment.

DBmaestro suite consists of several modules for database deployment, enhanced security, and database development. The challenges for Mizrahi-Tefahot Bank were overcome through the various DBmaestro database solutions:

- **Change Policy Enforcement** – The DBmaestro suite includes a unique technology that ensures that zero “out of process” changes are made. Any changes made to the database code are tracked and accidental overrides are prevented. There is a repository that stores information on who made changes, at what time they were made, in which environments, and why.
- **Deployment Automation** – DBmaestro automatically generates a single deployment script, which eliminates human errors that are often not discovered until the application crashes in the production environment.

### Solution's Benefits

**Regulatory Compliance:** DBmaestro enabled the client to satisfy database Compliance requirements, including those of the GLBA (Gramm-Leach-Bliley Act), SOX (Sarbanes-Oxley) act, PCI-DSS (Payment Card Industry Data Security Standard), and COBIT.

**Database Recovery:** DBmaestro allowed the client to retrieve valuable data. On one occasion, where a developer deleted the entire development environment, they managed to restore it with DBmaestro despite the fact that there was no backup. This saved the company from a potentially expensive error.

**Agility and Quality:** DBmaestro saved the client time and money by significantly reducing the development and deployment costs as well as reducing the number of potential risks of deployments.

“DBmaestro brings a true and indispensable value. Using it saved the day more than once, by allowing us to retrieve valuable data easily”

Itamar Tadmor, System Architect & Team Leader,  
Mizrahi-Tefahot Bank