

# Bezeq harnesses the power of microservices and APIs for mobile application

Bezeq modernizes its major portal without expensive middleware or proprietary software



Telecomm

SAP

Microservices

Mobile

The company provides comprehensive communications solutions throughout Europe via internet, telephone (international, domestic and intra-organizational), IT and cloud computing services, and more.



## The Challenge

### Mobile usage, single sign-on, expense reporting on the go

The company had a portal that was heavily used by thousands of employees for all HR-related activities, from vacation requests and expense reports to travel approval and meeting room reservations. However, this portal, developed in .NET, no longer provided the most up-to-date functionality, and developing new features took a long time and involved multiple development teams. In addition, the cost reporting features on the portal were no longer in line with how employees submitted expenses. The portal's slow speed and outdated interface became a nuisance for the employees who depended on it.

To address these problems and keep up with the high volume of requests for which the portal is used, Bezeq wanted to implement LDAP Authentication, Single Sign-On, and access to standard and custom Business Application Programming Interface (BAPI) methods for SAP ERP ECC6.0. In implementing these changes, the company also wanted to avoid expensive middleware, and didn't want to subject thousands of employees to the steep learning curve of an entirely new system.



## The Solution

### Microservices architecture

OpenLegacy engineers helped add new functionality to the SAP ECC6 that was widely used to support all financial, logistical and human capital activities. This digital solution is built on OpenLegacy's innovative API technology that leverages microservices to structure an application as a collection of loosely coupled services, which implement business capabilities.

These microservices allowed the company to keep the backbone of their legacy system, thus eliminating any learning curve that new middleware would require. Microservices have allowed the legacy system to



*OpenLegacy helped us unlock the power of microservices.*

**CIO, Bezeq Telecom**

adapt to the changing needs of the company, such as adding new mobile functionality. OpenLegacy is also version-agnostic, and can generate its APIs on top of any version of the underlying legacy platform. Development time is much faster as the developers simply use OpenLegacy to expose an API in a few minutes with a point & click interface.

With the use of OpenLegacy, .NET applications are working directly on top of SAP, with no need for any middleware/ESB products. Eliminating the use of middleware solutions resulted in better performance and faster communication speed even at high volume. In addition, there is a reduction in licensing costs of middleware solutions.



## The Result

### Modernized mobile apps

With the help of OpenLegacy's solutions, the company's portal now fulfills the most current needs of thousands of employees. A new set of APIs being developed will support mobile applications used by

technicians in the field to quickly and easily submit expense reports by uploading photos from the employee's phone.

In addition, the microservices solution was able to accommodate the changing needs of the company's cost reporting system. In three days, OpenLegacy developed 8 REST APIs on top of the SAP Human Capital Management module for expense reporting, providing much-needed flexibility. For example, some costs are subsidized by the company, so the mobile application now shows the amount subsidized by the company (varies by employee) and enables the uploading of receipt images to be stored in SAP Document Management System.

OpenLegacy's innovative API technology and microservices allowed this company to modernize its portal and provide dynamic and efficient tools to aid vital HR activities, all without expensive middleware and lengthy employee training.

### About OpenLegacy

OpenLegacy's Digital-Driven Integration enables organizations with legacy systems to release new digital services faster and easier than ever before. Connecting directly to even the most complex core systems, OpenLegacy automatically generates the digital-ready components needed to integrate legacy assets into new exciting innovations. With OpenLegacy, industry-leading companies release new apps, features, and updates while spending a fraction of the time and resources, so they quickly and easily become digital to the core.