

E2E TECHNOLOGIES

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Simply integrated.

E2E CASE STUDY – BUSINESS INTEGRATION

Rapid multi-country integration with central SAP® system

Energy and infrastructure services group EVN uses the E2E Bridge® as a best-of-fit complement to SAP® PI to simplify integration with third-party apps and as a light-weight replacement for SAP® Business Connector



« The high ROI was decisive in the selection of E2E. This unique approach will lead to substantial productivity gains for the entire organization – for years to come. »

Robert Redl
CIO
EVN AG

About EVN AG

EVN is a leading Austrian energy and infrastructure service group with a market capitalization of more than €3.4bn. The EVN group offers its customers electricity, gas, heat, water, thermal waste recycling based on the most modern infrastructure as a one-stop fulfillment. EVN does business in over 14 countries, has around 9,500 employees and achieved revenue of more than €2.2bn, with a net profit growth of 58% over the last 4 years. EVN serves more than 3 million electricity consumers.

www.evn.at

Challenge

- ▶ Post-acquisition business integration
- ▶ Introduction of SAP® in subsidiaries too costly
- ▶ Replacing SAP® BC with SAP® PI laborious
- ▶ Multi-country collaboration difficult

Benefits

- ▶ Model execution facilitates process transparency
- ▶ Overall increase in organizational productivity
- ▶ End-to-end lifecycle from design into production
- ▶ UML® use improves multi-country collaboration
- ▶ Low system footprint, high performance

Solution

- ▶ Reuse of existing apps in subsidiaries
- ▶ Search for lightweight SAP® BC replacement
- ▶ E2E Bridge® as complement for SAP® PI
- ▶ Introduction of executable UML® methodology

Results

- ▶ E2E Bridge® replaces 50% of former SAP® BC
- ▶ Effective, transparent modularization
- ▶ High level of standardization through models
- ▶ Drastically improved interface documentation
- ▶ No extra resources required for patch upgrades

Challenge

EVN uses SAP® as its core business application. Following the acquisition of electricity distribution companies in Bulgaria and Macedonia, the business integration foresaw inclusion of the new subsidiaries in all central business processes.

At the time, none of the acquired companies used SAP, and a short term replacement of their existing ERP infrastructure was too costly and time consuming. At the same time, EVN had to replace some 103 services with 390 sub-flows implemented via SAP® Business Connector (BC). Migration pilots based on SAP® PI were technically working, but required a substantial amount of system resources and extensive developer experience to integrate third party applications.

Hence, EVN was looking for a solution which would allow combining the use of SAP® PI with a lightweight ESB suitable for replacing a large portion of the SAP BC interfaces, as well as integration with the heterogeneous infrastructure of the newly acquired businesses.

Solution

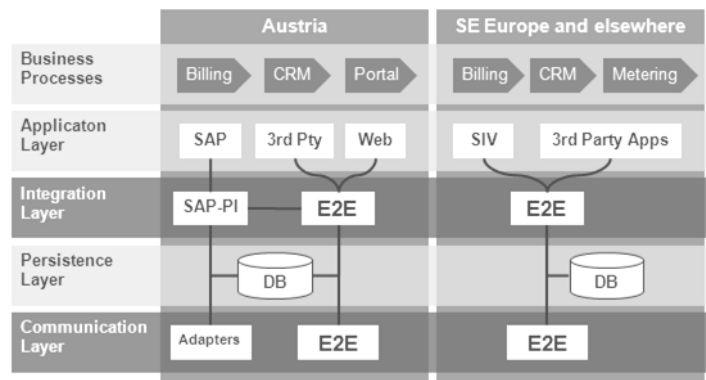
EVN chose a purely model-driven approach based on executable UML® using the E2E Bridge® to accelerate business integration of Eastern European Countries and to support SAP® BC migration efforts at the EVN headquarter in Austria. Using Model Driven Integration it was possible to build the full integration framework in Bulgaria with a team that had previously been used for internal programming efforts.

A comparison of the productivity of various SAP® integration methods led to the following conclusion: to do a small modification to an existing interface – the most frequent case – with the E2E Bridge® it took under 4 hours including documentation, testing and deployment, with SAP® BC, which is a relatively lightweight tool, it took on the order of 1-2 days. Taking into account the complexity of SAP® PI, implementing the same change would likely have taken substantially longer, as even for a small change a full development cycle has to be completed.

New interfaces built with the E2E Bridge® include connectivity to the local backend systems, some home grown and one customized commercial package, plus all market facing connections, including bank interfaces via SWIFT, and finally the connectivity to EVN's headquarter in Vienna. Based on the executable UML® approach of the E2E Bridge® all interfaces and changes to these are now fully documented at all times.

« The E2E Bridge was selected based on development speed, ability to reduce total cost, architectural flexibility and an unprecedented approach to software quality – the perfect complement to SAP® PI. »

Dr. Ralf Banning
Senior Consultant
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Results & Benefits

- ▶ Small system footprint of E2E Bridge® suitable for deployments even in small countries
- ▶ All SAP® integration patterns supported – BAPI, RFC, IDoc, WS, XML, EDI, SWIFT & flat files, etc.
- ▶ 50/50 split between using E2E Bridge® and SAP® PI to replace SAP® Business Connector
- ▶ E2E Bridge® used for third-party application integration, SAP® PI for SAP-to-SAP integration
- ▶ High flexibility to adapt to different requirements of individual country organizations
- ▶ Rapid adoption of Model Driven Integration by diverse multi-country implementation team