



Customs Administration of the Czech Republic

e-Vývoz (e-Export)

” The information system “e-Vývoz” is a part of the pan-European system of export control system ECS and has been used by the Czech Republic Customs Administration since 1 February 2007. The communication with customs and tax authorities is much easier, especially for subjects that export goods outside European Union territory. The system allows the replacement of traditional paperwork using SAD forms by means of electronic communication.



Situation	Project Targets	Contributions
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The development of electronic support systems for processes running within the scope of a customs operation brings new requirements, especially for the simplification, acceleration and standardization of various procedures. One of the very difficult problems is the solution of export problematic within the framework of EU countries. In practice, this means the realisation of the information system according to the pan-European specifications implementing the European system national domain for AES (Automated Export System) and ECS (Export Control System). The submitter of realization and system guarantor is the Customs General Directorate of the Czech Republic.

The main goal of the project was to build a safe information system that implements demanding requirements and meets strict expectations defined within the scope of definition of the national domain for AES/ECS. This project, known as “e-Vývoz”, sends preliminary information to the office of the export and then the online confirmation of export of goods outside the EU. Another task was the provision of cooperation with the TARIC database and full control of export regulations issued on the national and European Union levels.

- Presentation of fully-electronic customs declaration that dramatically simplifies the administrative process.
- Legally binding electronic confirmation of the export of the goods outside EU – speeds up (by months) the possibility of claiming the value-added tax deduction.
- The electronic form of operation prevents losses of conveyance documents required for tax authorities.
- Usage of the system makes the operation of a truck fleet more effective.
- The system offers the ability to check the status of exporting declaration on the web pages of the Customs Administration.



Solutions

Within the scope of "e-Vývoz" development, the following solutions were realized:

- Project documentation analysis of AES/ECS and necessary legal scope.
- Analysis of business processes of the Customs Administration.
- The design of dynamic and data model of "e-Vývoz" application.
- The design of three-layer application architecture – client NCTS/e-Vývoz, application server and information centre.
- Development of client and middle layer of application server.
- Usage of communication infrastructure of the wide area network (WAN) of the Customs Administration for direct communication.
- The development of the basic processing application with the option of connecting to common domain via CCN/CSI gateways and with accessibility of legally binding electronic communication to merchants (using an advanced electronic signature).
- Providing operational technical support and connection to the supervising system with operation monitoring.



Products and Technologies

The system is based on Microsoft technologies. The main products used here are Windows Server 2000/2003 Enterprise Edition, SQL Server 2000 Enterprise Edition and BizTalk Server 2002 Enterprise Edition. For the data exchange, the XML technology, as well as the technology of high accessibility in Microsoft Cluster Services and web farms with Microsoft Internet Information Server is used.

"e-Vývoz" has links to other production systems (warranty system, allowance system, etc.). Older components of the system were developed for the Win32 platform using the Borland Delphi, the new version of the client and middle layers are developed in Microsoft .NET Framework version 2.0 using the Microsoft Visual Studio 2005.

Customer specification

- Profile:** Customs Administration of the Czech Republic is the administrative authority with a nationwide sphere of action for customs matters.
- Sector:** Public administration – Customs Administration
- Organization size:** 6000 PCs
- Country:** Czech Republic

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