

» IBA-Gomel migration services

Description of service

According to [Software](#)

[Productivity Consortium](#), "In the IT world, migration is the movement of an application system to a new environment motivated by a need to serve the business of the enterprise more effectively.

Migration helps protect the current investment in data and functionality critical to the business and establishes a path for growth.

Migration establishes a basis for effectively harnessing modern IT to satisfy current and future needs.

This allows for the enterprise to better position itself within a constantly changing business and technological environment. An enterprise can accomplish the migration in one or more steps.

The size and number of steps depend on the amount of change the enterprise's systems must undergo and the need to rest and recover along the way." Porting a large scale software application demands strong automation to meet economic and timeframe objectives.

As a sample of migration the IBA-Gomel presents

CA-Easytrieve to COBOL

migration service based on homegrown [mass-conversion tool](#)

Typical migration project

assumptions Customer provides just source codes but not the access to target platform Customer provides code style guide and/or Cobol framework Customer provides sequence and terms of source modules to be converted (migrated) IBA-Gomel converts Easytrieve modules and delivers

source Cobol modules to
Customer Customer performs the
final tests and user-acceptance
tests Customer updates JCL
according to replacement of
CA-Easytrieve modules to Cobol
programs Cobol Report Writer is
not in use

**Typical migration project
schedule**

What/task	What/deliverables	When Who	W1 W2 W3
Preliminary estimation of the Project	1. Decision/contract 2. Project manager (PM), team leader assignment 3. Project plan&schedule	1. Customer's contact person 2. Contractor's contact person 3. Contractor's PM 4. Contractor's teamlead	
Tuning of mass-conversion tool (MCT) according to Customer's coding style guide and/or options of CA-Easytrieve (CA-ET) and COBOL	1. initial test conversions	1. Contractor's developers	
Mass conversion Procedure of Customer/Contractor interaction (see below)	1. Target COBOL modules 1. Target COBOL modules accepted by Customer	1. Contractor's developers 1. Contractor's developers 2. Customer's technicians	

Typical procedure of customer-contractor interaction on the migration project

Customer	Time step(+delay, hours)	Contractor
Initial stage Sends source codes of CA-Easytrieve (CA-ET) modules		Receives source codes of CA-Easytrieve modules Translates CA-Easytrieve modules to COBOL modules
for each module		Sends COBOL source codes, corresponding to CA-Easytrieve modules
	START	
Receives COBOL source codes Compiles COBOL source codes with own environment	START+1	
Case 1: Compilation errors Sends compiler's listings to contractor for validation of compiler's options	START+(1..3)	Receives compiler's listing, updates COBOL source codes, sends codes to customer, returns to START
Case 2: No compilation errors, test(s) disagree to sample (CA-Easytrieve)output		

Runs tests, compares tests
(COBOL) output to sample
(CA-Easytrieve output) Sends
results of test runs (outputs of START+(1..3)
COBOL-II and outputs of
corresponding CA-ET modules) to
contractor

Receives results of tests runs,
updates COBOL modules, sends
codes to customer, returns to
START

**Case 3: No compilation errors, test(s) agree to sample
(CA-Easytrieve) output**

Accepts COBOL module, sends to
contractor a list of accepted CA-ET START+(1..3)
and COBOL modules

Stops processing of corresponding CA-ET module

Links:

- [DoD Software Migration Planning](#)
- [Software Productivity Consortium](#)

All rights reserved © 2004 FE IBA-Gomel | www.gomel.iba.by | root@gomel.iba.by 19, Fediuninskogo St.,
Gomel, 246007, Belarus Phone: +375 232 68-24-42, Fax: +375 232 68-21-51