Abstract

The permanent evolution of needs and ICTs on the one hand and taking into account customer satisfaction on the other hand has lead companies to adapt their information systems. Taking these developments into account inevitably leads to the obsolescence of existing systems. In most cases, these legacy systems are not fully documented. This state of affairs
renders the migration process very complex. The situation is much more complex in developing
countries where only information systems are not documented but, also suffer from a lack of
qualified staff capable of maintaining information systems. Till date, the work done in legacy
information systems migration is based on documentation of these systems, but do not specify
how the documentation was created. In this work, we propose an approach based on the theory
of business process and workflows which systemizes reverse engineering of legacy information
systems to provide the documentation necessary for migration

Reference

- Jean-Luc Hainaut, A. Cleve, J. Henrard and Jean-Marc Hick. 2008. Migration of Legacy
  Information Systems.
- J. Bisbal, D. Lawless, B. Wu, and J. Grimson. 1999. Legacy Information System
- J. Bisbal, D. Lawless, R. Richardson, D. O'Sullivan, Bing Wu, J. Grimson, V. Wade. 1997. The
  Dublo Architecture Pattern for Smooth Migration of Business Information Systems: An
  Experience Report.
- N. Ganti and W. Brayman. 1995. Transition of Legacy Systems to a Distributed
- Richard Heeks. 2002. Information Systems and Developing Countries: Failure, Success, and
  Local Improvisations. The Information Society.
- M. Brodie and M. Stonebraker. 1995. Migrating Legacy Systems: Gateways, Interfaces and
  the Incremental Approach. Morgan Kaufmann, San Francisco.
  Information Systems. TR-022-10-92-165 GTE Labs Inc.
- Anderson S., Felici M. 2001. Requirements Evolution from Process to Product Oriented
  Software Process Improvement, Kaiserslautern, Germany, September 10-13, 2001, LNCS
  2188, Springer-Verlag.
- Harker, S., K.Eason, and J. Dobson.1993. The change and evolution of requirements as
  a challenge to the practice of software engineering. In IEEE International Symposium on
  Requirements Engineering, IEEE Computer Society Press.
  Domain. ICEIS - information systems analysis and specification.
- Dumitru Oprea, Gabriela Mesnita. 2006. The Information Systems Documentation –
  Another Problem for Project Management.
  (DSM) Approach for Business Processes Modelling. IJCA.

Index Terms

Computer Science
Information Systems

Key words

Legacy Information Systems
Migration
Documentation
Understanding
Enterprise Modeling
Business Process Theory
Workflows Theory.