

## Knowledge Based Automated Software Engineering Platform Used for the Development of Bulgarian E-Customs

**Authors :** Ivan Stanev, Maria Koleva

**Abstract :** Described are challenges to the Bulgarian e-Customs (BeC) related to low level of interoperability and standardization, inefficient use of available infrastructure, lack of centralized identification and authorization, extremely low level of software process automation, and insufficient quality of data stored in official registers. The technical requirements for BeC are prepared with a focus on domain independent common platform, specialized customs and excise components, high scalability, flexibility, and reusability. The Knowledge Based Automated Software Engineering (KBASE) Common Platform for Automated Programming (CPAP) is selected as an instrument covering BeC requirements for standardization, programming automation, knowledge interpretation and cloud computing. BeC stage 3 results are presented and analyzed. BeC.S3 development trends are identified.

**Keywords :** service oriented architecture, cloud computing, knowledge based automated software engineering, common platform for automated programming, e-customs

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