

An Integrated System for Simultaneous Bid Preparation

Mathias Krömker*, Klaus-Dieter Thoben*, Andreas Kebbel†, Hans Jürgen Schönert*

*Bremen Institute of Industrial Technology and Applied Work Science at the University of Bremen (BIBA), Department of Computer-Aided Design, Planning and Production
Hochschulring 20, D-28359 Bremen, Germany E-mail: kro@biba.uni-bremen.de

†Bremer Werkzeug und Maschinenbau GmbH, Sales Department
Dortmunder Str. 5, D-28199 Bremen, Germany E-mail: bwm_salesdept@compuserve.com

ABSTRACT

This paper describes the development of an integrated system for simultaneous bid preparation for products tailor-made to customer specifications. The system has been implemented directly in the later user environment following prototyping approaches [1]. Results of the ESPRIT project BIDPREP have been applied as a baseline.

The paper outlines the work performed, describes the main results, reports experiences gained within two years of industrial use and evaluates the development approach as well as its use as a baseline for further Projects such as the ESPRIT projects DECIDE and CSCCM.

KEYWORDS

Bid Preparation, Concurrent Engineering, One-of-a-kind Production, Prototyping, Reference Model, Sales Support System, Standard Software.

1. INTRODUCTION

Enterprises within the capital goods industry face a serious dilemma in their daily acquisition procedures: To win economically interesting contracts and to be competitive in the ever growing market, it is necessary to prepare convincing, attractive and reliable bids. This causes considerable expenditures in terms of valuable resources.

The complexity of the bid preparation task is increased by the fact that customer specifications are usually not complete, contain contradictory

requirements and are very often subject to intermediate changes. Reliable concepts are hard to specify as the customer usually sets a tight deadline for submitting the offer, making it difficult to verify each technical detail of the proposed product.

The Commission of the European Communities (CEC) has backed a project entitled "BIDPREP – An Integrated System for Simultaneous Bid Preparation" [2], project no. 7131 under the ESPRIT program which has developed both a reference model for an optimized bid preparation process for companies with products engineered-to-order as well a computerized system capable of supporting the bid preparation process by applying the concurrent engineering concept. Within this project, various companies with products engineered-to-order cooperated with research partners from Norway, Denmark, Italy and Germany.

After the successful completion of the BIDPREP project, the results have been adapted towards the needs of small and medium enterprises (SMEs). In this paper, such an adaptation is described on the case example of the machine tool manufacturer Bremer Werkzeug- und Maschinenbau GmbH. Results and experiences are reported.

2. RESULTS OF THE BIDPREP PROJECT

This section describes briefly the two main results of the BIDPREP project: The reference model for bid preparation as well as the system architecture. A complete description of results is given in [2].

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