

Model Driven Framework and Multi Agent Add-on to an ERR System

U. D. C. E. De Silva and B. A. K. Dissanayake

Uva Wellassa University, Sri Lanka

1

This research proposes a Model Driven Framework for an ERP system as well as a Multi Agent Add-on that will assist the senior management in decision making. Solutions proposed address the organization as a whole as well as from the senior management level in making the business functions more effective and efficient. The carefully organized solution can be catered to any organization of any business level or business type. Business Intelligence is essential in developing better business strategies as well as making timely decisions. Using Artificial Intelligence and Agent Technology as the key factors, this research has proposed and developed a proof of concept system to exhibit the use of modern technology for better management decisions.

Agent Technology has proven to be one of the key fields of business automation with intelligence. Multi Agent Systems are used to enhance the corporate business functions as well as decision making. The proposed system will help make the information fog more dense therefore will effectively enhance business decision making. The proposed solution caters natural language, allowing users to concentrate more on the required information than the method of obtaining it. This research has also proposed business models that can be used to organize the business processes in a business perspective as well as an information technology perspective. These models ensure intractability among them in the more complex information technology level whilst making up to date information available, accessible to the entire organization without traditional boundaries of segmentation but enabling levels of access catered to suit every member of the organization. The specialty of these proposed solutions is that they can be adjusted according to the need of the user thus making them customer oriented and customer driven, ensuring that customer is the king.

Key words: ERP system, Artificial intelligence, Information technology