Business Process Modelling : Classifications and Perspectives

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This paper deals with the various process modelling approaches in the context of BPM and SOC (enterprise computing).

Their further classification into semantic, non-semantic methods and their compliance with the industrial standards and theoretical concepts, is also taken care of.

Business process is a flow of activities that transforms input into some goal- oriented output. Their smooth running requires a comprehensive process of modelling.

Business process management (BPM) is an organizational discipline where a company takes a step back and looks at all of these processes in total and individually. It analyzes the current state and identifies areas of improvement to create a more efficient and effective organization.

Business process management (BPM) is how a company creates, edits, and analyzes the predictable processes that make up the core of its business.

Each department in a company is responsible for taking some raw material or data and transforming it into something else. There may be a dozen or more core processes that each department handles.

The different modelling approaches:

● **Industrial approaches**:

- Semantic models: Generally close to the natural language, hence human-readable and easy to understand

- Non-semantic models: A black-box approach where the interrelations and dependencies have to be figured out

● **Academic (formal) approaches:**

Eg- Petri Net, ASM, Pi Calculus and Logi

Some basic comparisons brought out:

BPM	SOC
Focuses on a set of activities for coordination More business orient	Works with an architecturecentric approach Involves IT and other modern too

Non-Semantics	Semantics
More mature and tested approaches	Are still in their infancy, mostly used for research

Industrial Standard	Theoretical Models
Gets us to simpler workflow models for the business Eg - WfMC, XPDL, e	Confusing and complex approach (due to the theoretical concepts) Eg - Petri Net, Pi Calculus, et

The overall summary of the paper is that no one model alone can provide us with success in future process modeling. We definitely need to have a merged proposal.