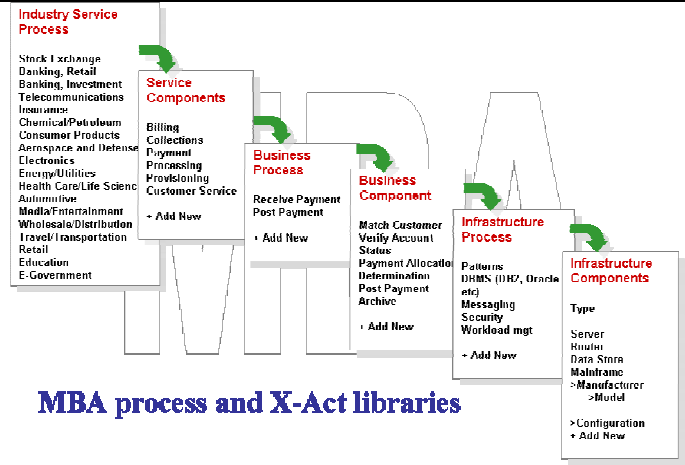
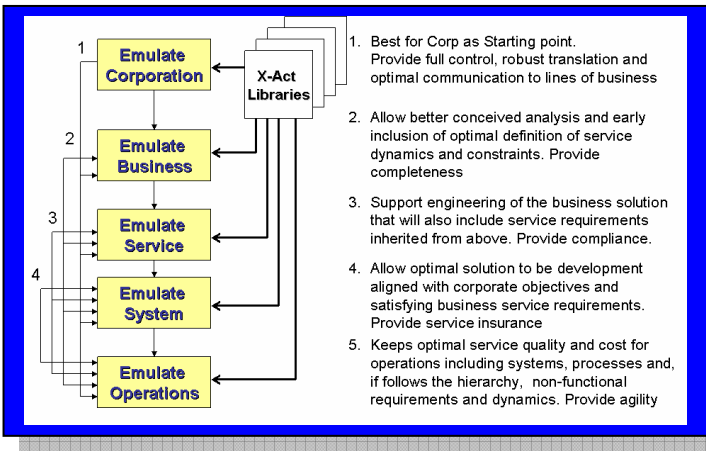




## Accretive Technologies Center of Excellence

# Business Service Emulation

## Architecture Dynamics Modeling Through MBA Method and X-Act Platform



**MBA process and X-Act libraries**

X-Act Service Pattern: is a dynamic structure that includes business service content within an optimal temporal system enclosure: order management, production line, trade, etc". It carries also dynamic requirements" such as cycle time, readiness/ availability, etc" and it carries finally operational requirements "resources vector, preparation requirements, dependencies on external events or internal services and cost-based-pricing etc".

### Challenge

- Current methods and practices of Enterprise Architecture IGNORE the implementations of service dynamics and non-functional requirements in the architecture definition causing most projects failures. X-Act explicitly represent and emulate both issues
- Service versus business: Existing Business process management techniques and analyzers IGNORE the orthogonal service representation due to inability to represent dynamic constraints. X-Act emulate such constraints and validate if an architecture will be able to scale prior to investment and construction

### SOA - Challenges – MBA and X-Act Answers

- Transaction Completion: X-Act Emulates the service process end-to-end and discovers all possible causes of disruption and degradation
- Transaction Cost: X-Act determines the resources consumption and the distribution fixed cost constituents; allows a clear determination of dynamic ROI and cost based pricing
- Integration/ Solution Viability: X-Act determines solution efficiency and propose options for architecture optimal definition prior and during the development cycle
- Scalability: X-Act computes a set of dynamic patented metrics that score an "Scalability Index" and its correlation to other metrics (cost and capacity)
- Extendibility/ Distribution: X-Act builds the demand management platform that allows experimentation of different scenarios of workload, virtualization, consolidation, distribution and select the optimal path,
- Requirements Volatility: Volatility occur due to a variety of origins: market changes, competition, exceptional events, arrival of new technologies etc. X-Act is able to emulate and compute the impacts of all on architecture efficiency, operations, service quality and cost. It also allows the definition of optimal course of optimization actions for each case
- Interoperability: X-Act libraries are rich in components that cover a wide range of architecture and implementation and operational solutions and patterns. In

particular these patterns help discovering the right migration, convergence and re-architecture paths and building the most efficient strategic planning.

- Decomposability: X-Act determines the right architecture implementation scenarios that introduce different mechanisms to tackle the low latency, parallelism, streaming for better turn-around windows, low cost ops etc. Each in correlation to demand management constraints.
- Virtualization: X-Act possesses models built the most comprehensive virtualization offers in the market. They cover: Storage, servers, locations and processes and able to predict the three dimensional graph that represent: quality of service, throughput and cost

### In addition and for a typical transformation:

- Do you need assurance the service levels for online and batch will be met? Our scenario analysis can provide you the assurance and confidence they will be met and how they will be met.
- Can you predict the system limits of the "go forward" configuration and identify actions to stretch these limits? Our modeling technology can!

### In our Library

- ◇ Trading and dealing systems
- ◇ Retail Banking
- ◇ Settlement and clearing systems
- ◇ Global Telco's solutions and Services
- ◇ Supply Chain Management
- ◇ Insurance
- ◇ Market Data Analytics and Analysis
- ◇ Database optimizers, solutions
- ◇ Infrastructures (including all platforms)



United States of America  
330 Madison Avenue- 6<sup>th</sup> Floor  
New York, NY 10017-5041  
Tel: 1 (212) 759-0871  
Tel: 1 (917) 338-6234  
[www.acrtex.com](http://www.acrtex.com)

France  
42 avenue Montaigne  
75008 Paris  
Tél : +33 1 72 74 10 70