

The agility road for the SOA journey

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The creation of the sustainable IT system with SOA

 Creation of a flexible structure that will turn IT software assets into reusable, loosely coupled services, linked together with messages

Package the existing assets or new components

- Services orchestration to create processes more easily
 - Use BPM tools to reach this goal
- Make more agile the services using MDM and BRMS tools
 - Exposing parameters and rules in systems directly accessible by users
- Use of industry standards to link these software together
 - Allowing evolutions of systems
- Need of a methodology to accompany the step



Agility chain for SOA – Need of a methodology





Approach chosen by SMABTP: the Praxeme methodology

- Modeling methodological approach
 - UML
 MDA (Model Driven Architecture)
- Analytical method built to ease the identification and the emergence of services for a better reusability
- Reconciliation between SOA and confinement of business rules in a BRMS
- Several technical ways to implement, the first one being in J2EE
 - Implementation of part of Java code via Objecteering from models (MDA) and UML profiles
 - The JAMOS Framework (Java AMOS)





Praxeme: The Enterprise System Topology (EST)



The value-added of the EST

Integrate the many approaches and inheritance

- Object, function, process, component, SOA
 - Each one at the right place

Set an overall mindset addressing the whole Enterprise System

- A framework detailed in a real metamodel
 - Which pays a great attention to the links between all the categories
 - Which provides a clear specification to customize the tools

Theoretical foundation of the public method

- Providing many disciplines with procedures and guidelines
- More details : WWW.PRAXEME.ORG



An upper level of abstraction: conclusion



- "Pragmatic" aspect
 - Usual and classical approach based on action, process, usecase...
 - Nothing new except it be to refer to semantic model
- "Semantic" aspect
 - □ We have to get rid of the "data versus process" dichotomy...
 - …and adopt the object-oriented approach
 - This approach is more respectful to "real life"



1. Separation of concerns as a inescapable principle

- An upper level of abstraction
- An intermediate level

An upper level of abstraction

- Current state
 - The highest description which is given of the business is in terms of process, activities...
 - This aspect of the business is prone to variation
 - Organization remains a an adjustment parameter
 - So, it's hard to ground convergence on this aspect
- Next step
 - There is an aspect above the organization and process
 - We call it semantic aspect
 - Conceptual
 - We can model the core business knowledge
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Separation of concerns

An intermediate level of abstraction

We must be able to discuss the system structure also with business actors

 In the context of governance, business needs to have a clear insight of what the software is and which road it follows

the "service" metaphor

- This insight cannot be given in terms of technology
- The "logical" aspect provides all the actors business & IT with an intermediate level to represent the IS





Separation of concerns in SOA



Applicative Architecture and JAMOS framework



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The Praxeme community

Praxeme Institute

- A non-profitable association
 - http://www.praxeme.org

Contributors and sponsors

 SAGEM, SMABTP, Armée de terre, Caisses d'allocations familiales, Unilog Management, AXA Group...

Colleges

- "Collège des architectes et concepteurs logiques (SOA)"
- "Collège des instructeurs"
- "Collège des modélisateurs sémantiques (référentiel métier, MDM)"
- "Collège des médiateurs (MOA, pré-modélisation, objectifs, exigences...)
- Etc.



Praxeme Filiations





BRMS and BPM : agility in action





Agility chain for SOA



SOA quadrant - Definition



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SOA Isolation des couches

Chaque couche a un rôle bien défini











