

# IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

28, 29 et 30 août  
IBM Client Center Paris



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# IBM SolutionsConnect 2013

L'IBM TechSoftware nouvelle génération

## RAT04: Architecture d'entreprise avec Rational System Architect

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28, 29 et 30 août - IBM Client Center Paris



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# Agenda

- Présentation de Rational System Architect

- ▶ Modélisation
- ▶ Référentiel commun
- ▶ Analyse d'impact

- Transformation du SI

- ▶ Gestion des trajectoires

- Jazz: Qu'est ce que OSLC

- ▶ Liens SA / Doors via RTC
- ▶ Liens SA / Design Manager





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# Présentation de Rational System Architect

Modélisation

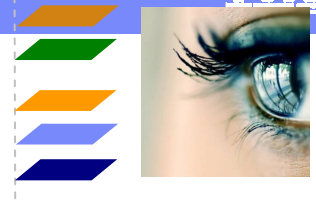
Référentiel commun

Analyse d'impact

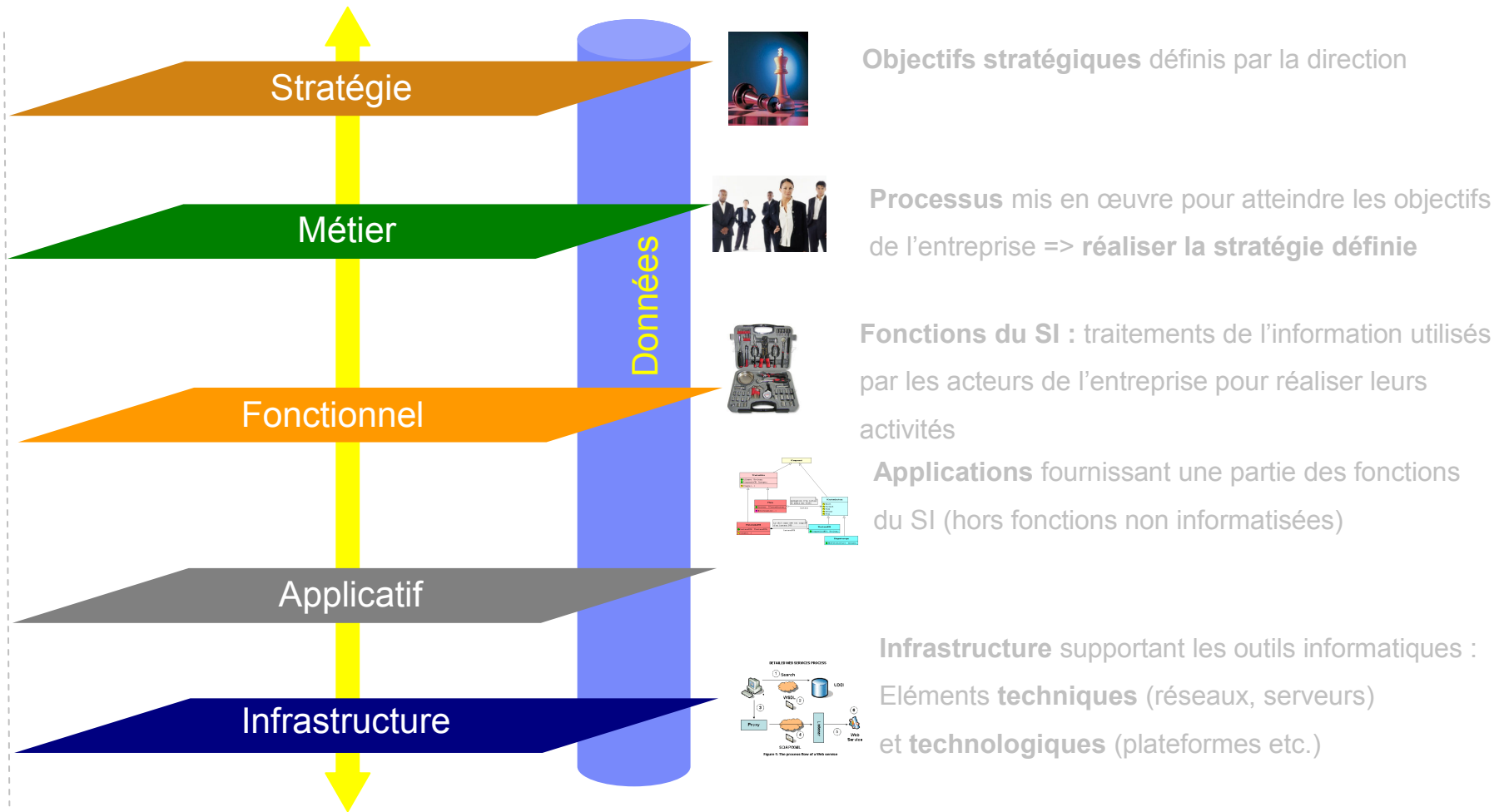
**Rational.** software



→ Go to **IBM**



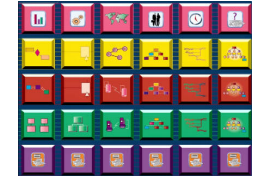
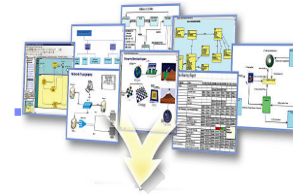
# Architecture d'entreprise





Quoi

# Un bon outil d'architecture nécessite...



## Les fonctions ...

▪ ...définir une architecture dans un langage commun

▪ ...fournir un accès contrôlé à l'information

▪ ...aider différents profils d'utilisateurs

▪ ...faciliter la prise de décision

## SYSTEM ARCHITECT fournit ...

**Standards & Frameworks**

**Un métamodèle configurable**

**Une représentation graphique adaptable**

**Un référentiel du marché**

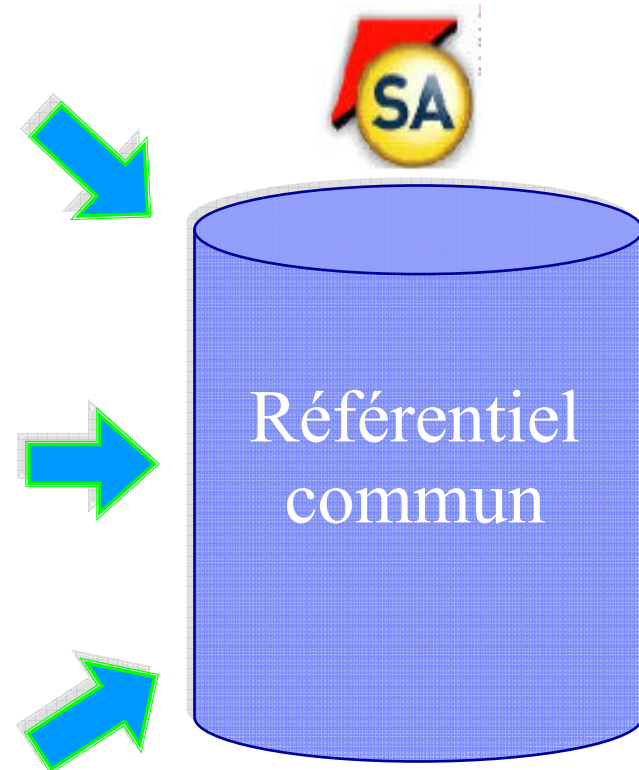
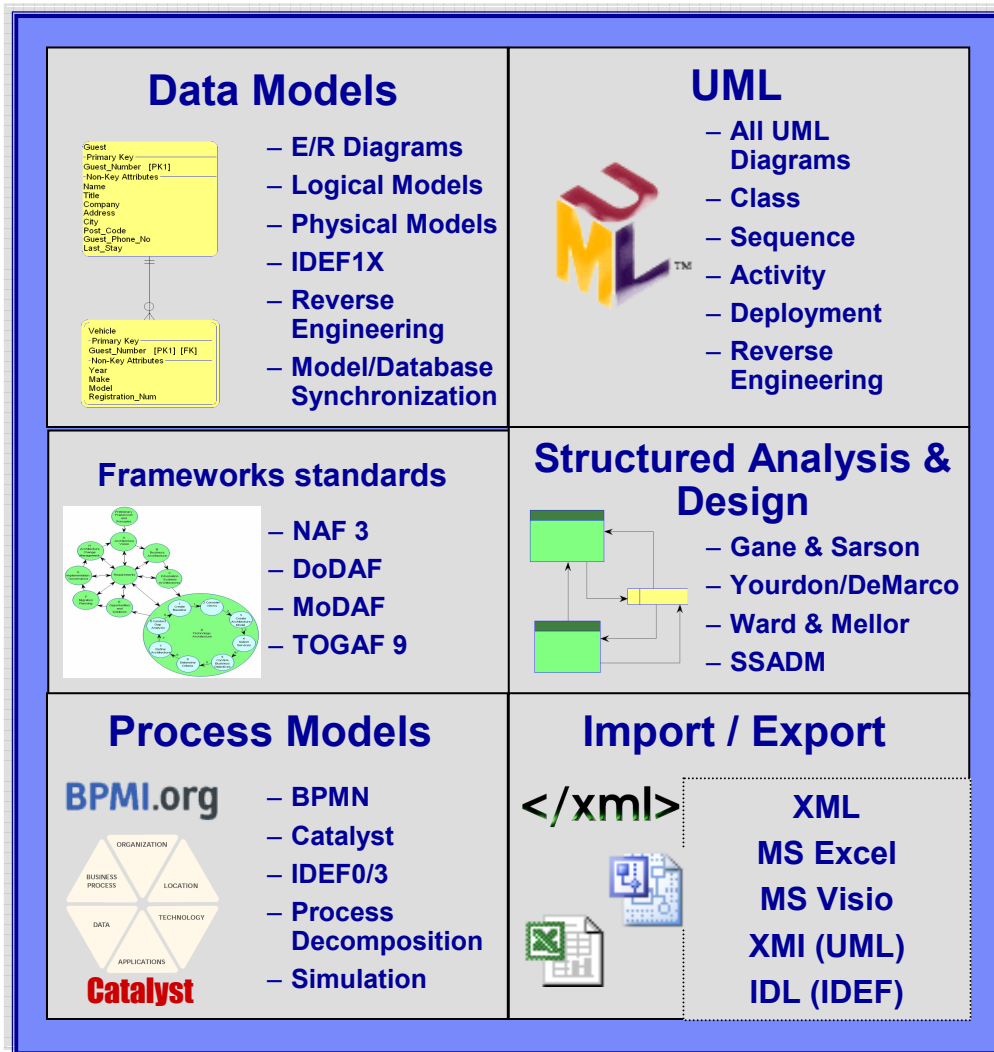
**Un environnement multi-utilisateurs**

**Des interfaces adaptables par profils**

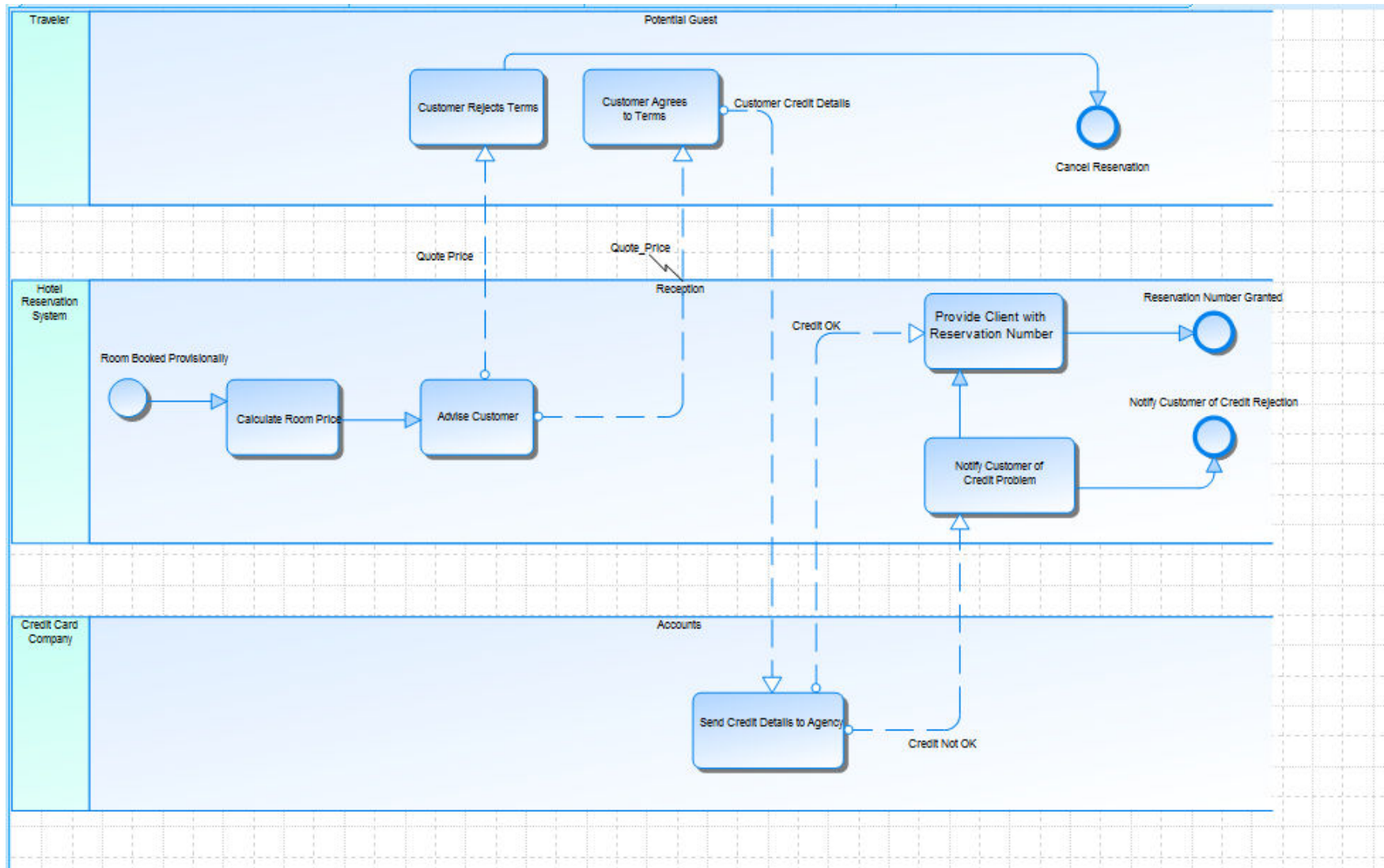
**Des fonctions avancées d'analyse et de reporting**



# Différents modèles dans un seul référentiel

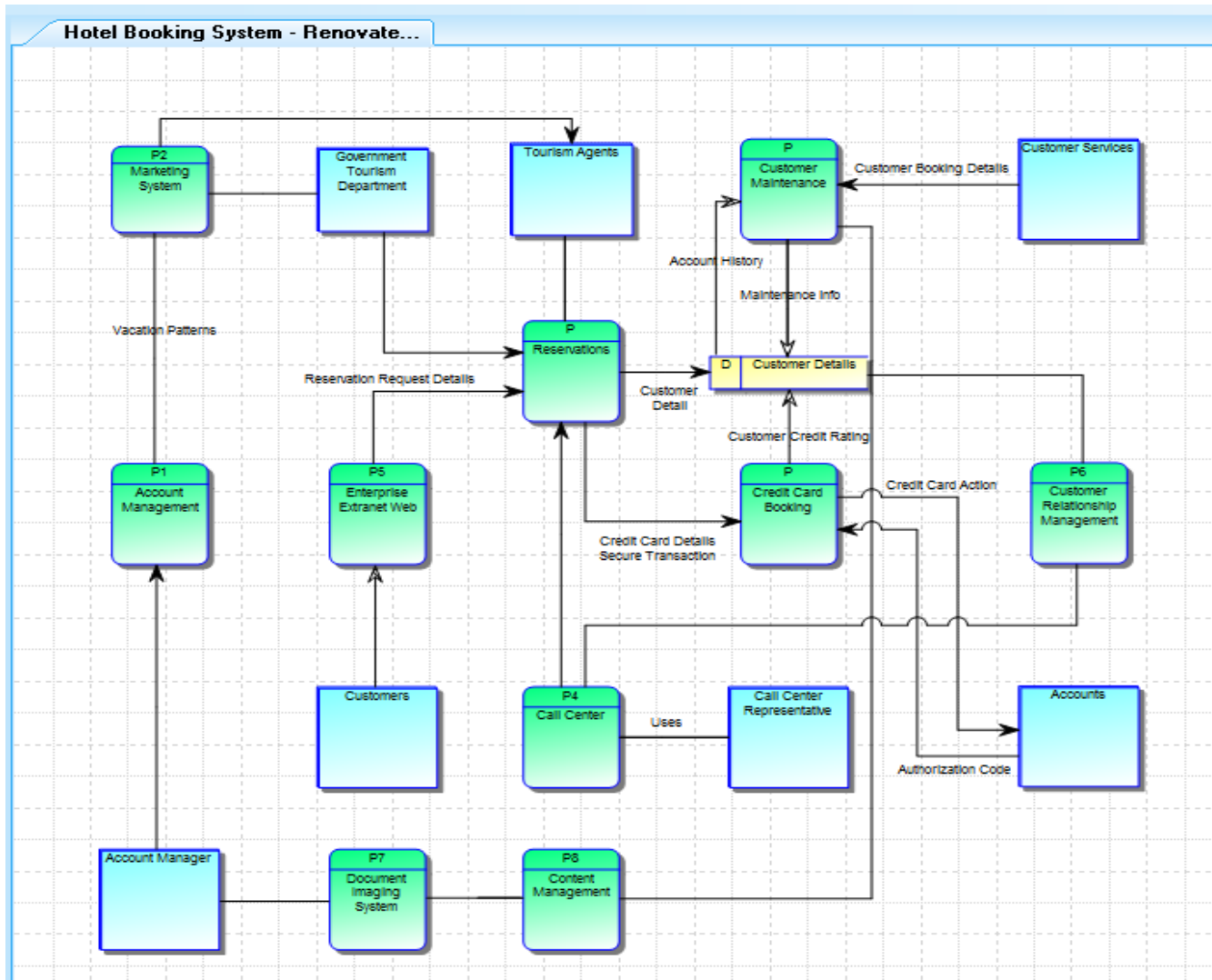


# Modéliser les processus métiers





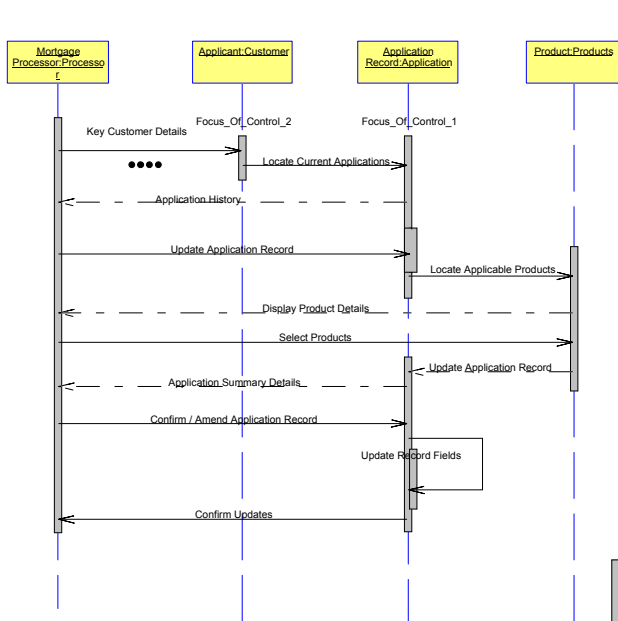
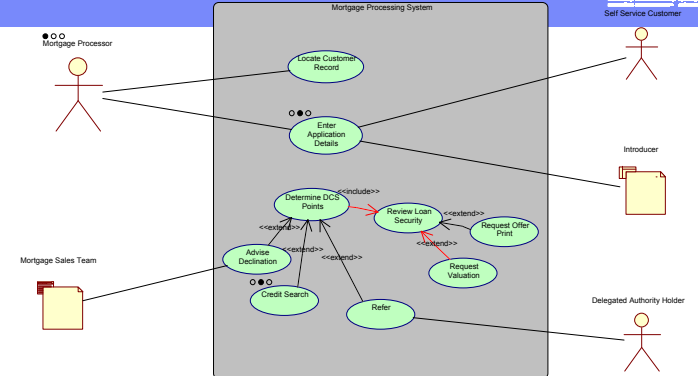
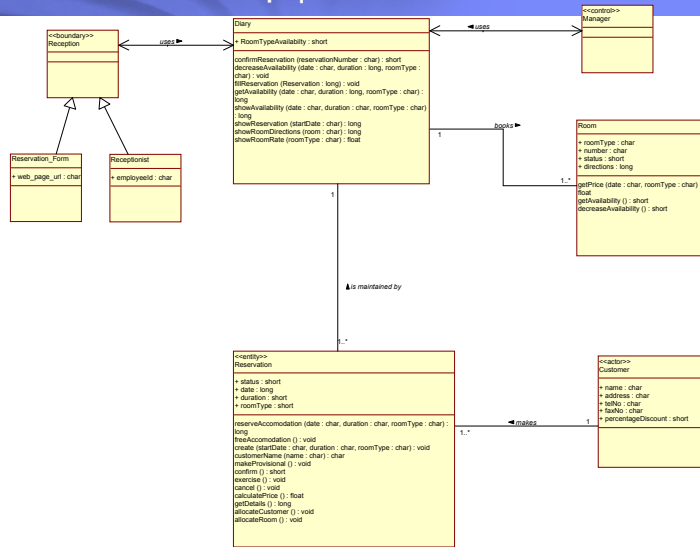
# Applications, Flux



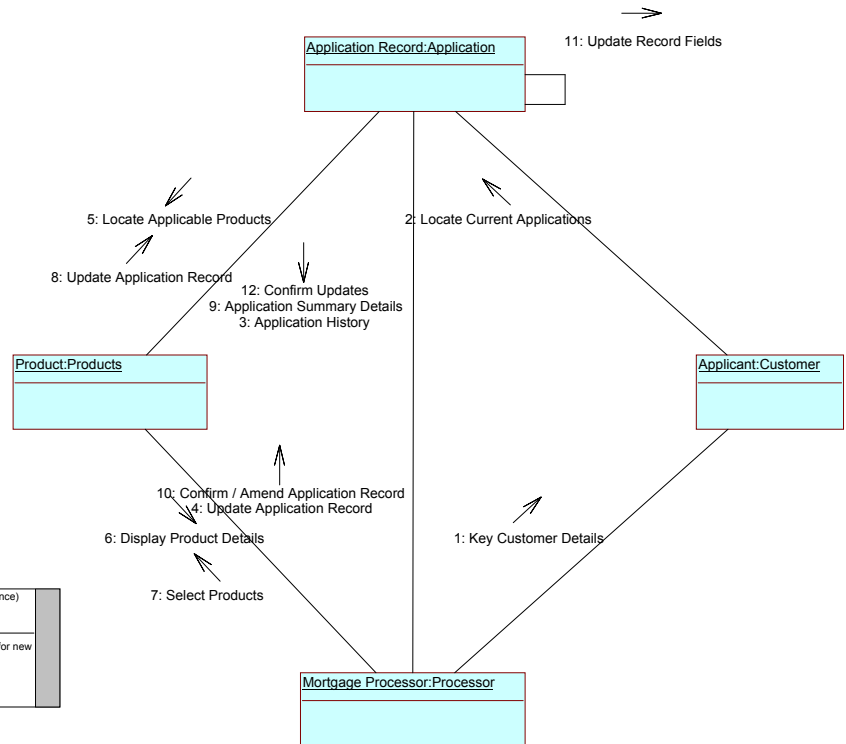
# UML

## Design Applications:

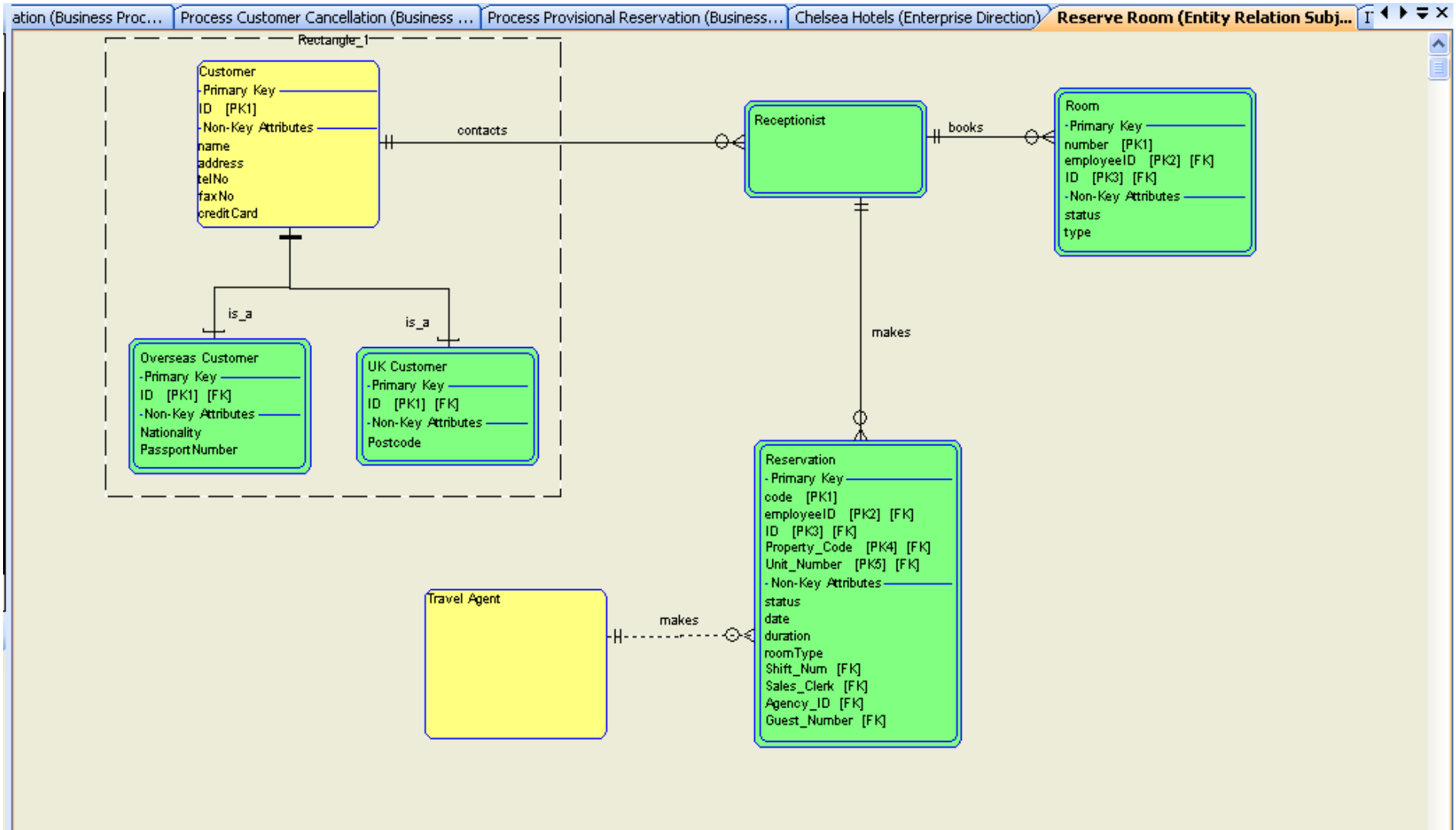
- Use Cases
- Object Interactions
- Classes
- Components
- State Machines
- Java



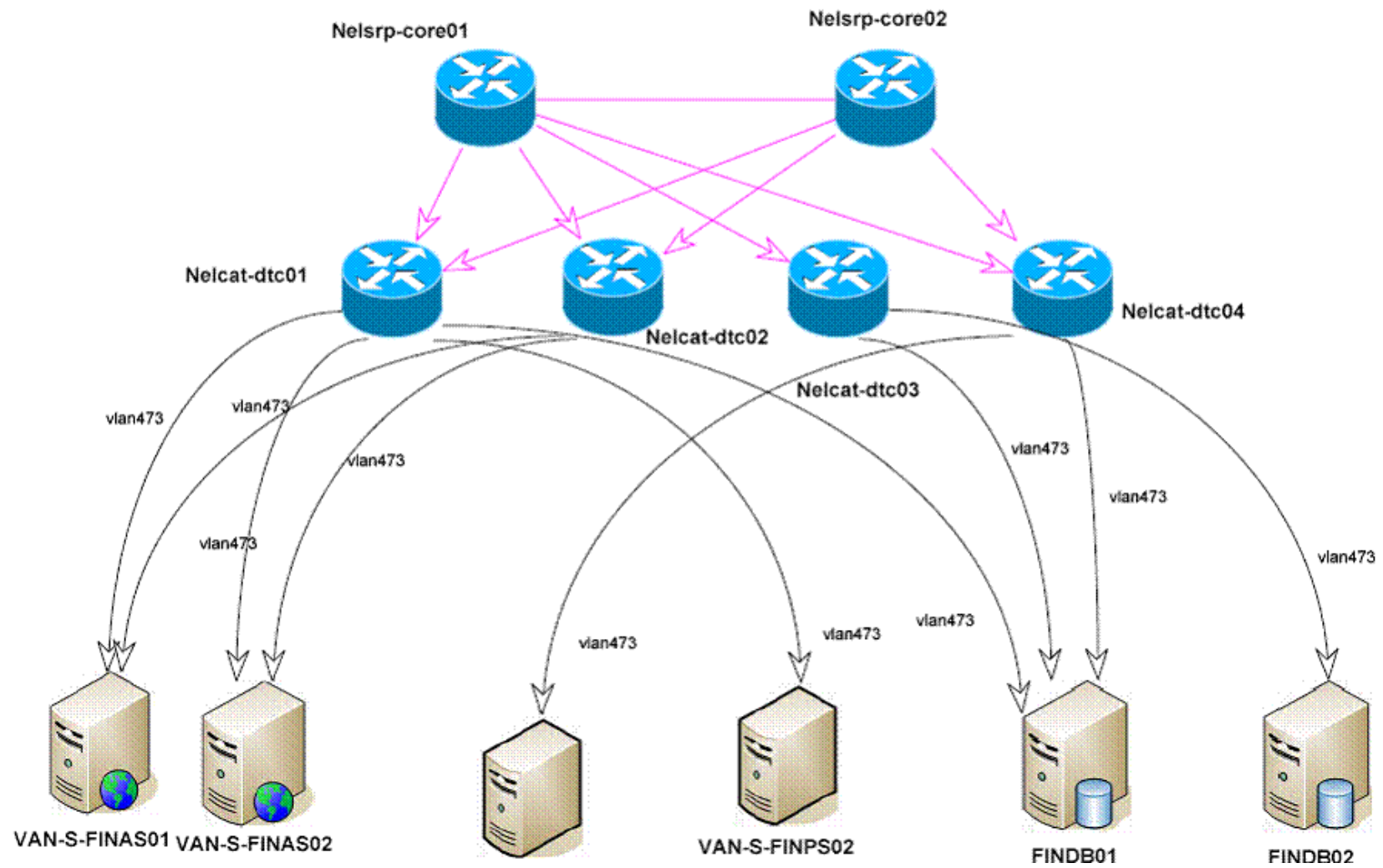
Enter Application Details (Sequence)  
System Architect  
Mon Apr 19, 2004 12:10  
Comment  
Scenario - enter application details for new main loan customer



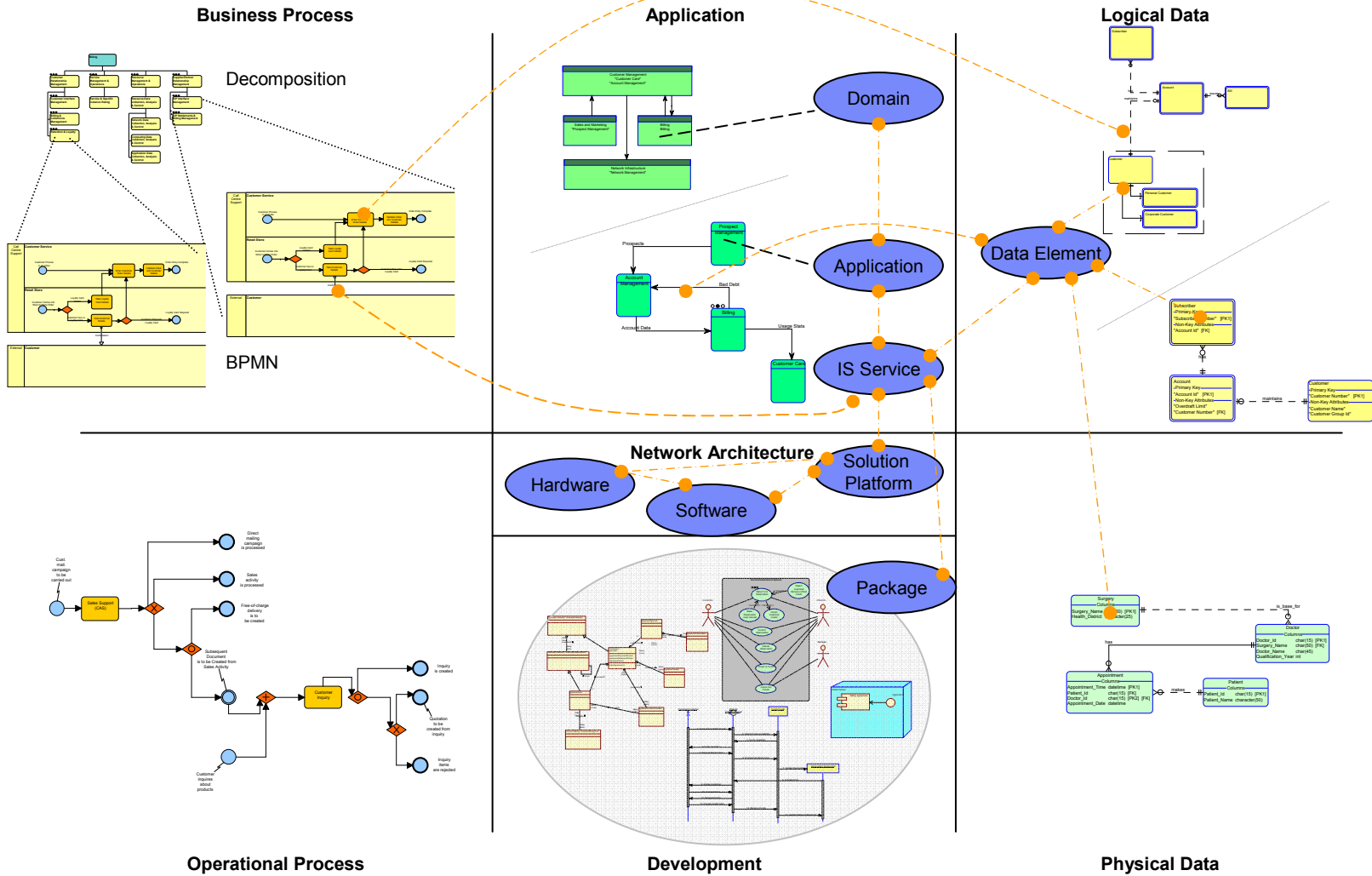
# Modéliser les données



# Infrastructure technique



# Traçabilité entre modèles







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## Transformation du SI

Rational. software



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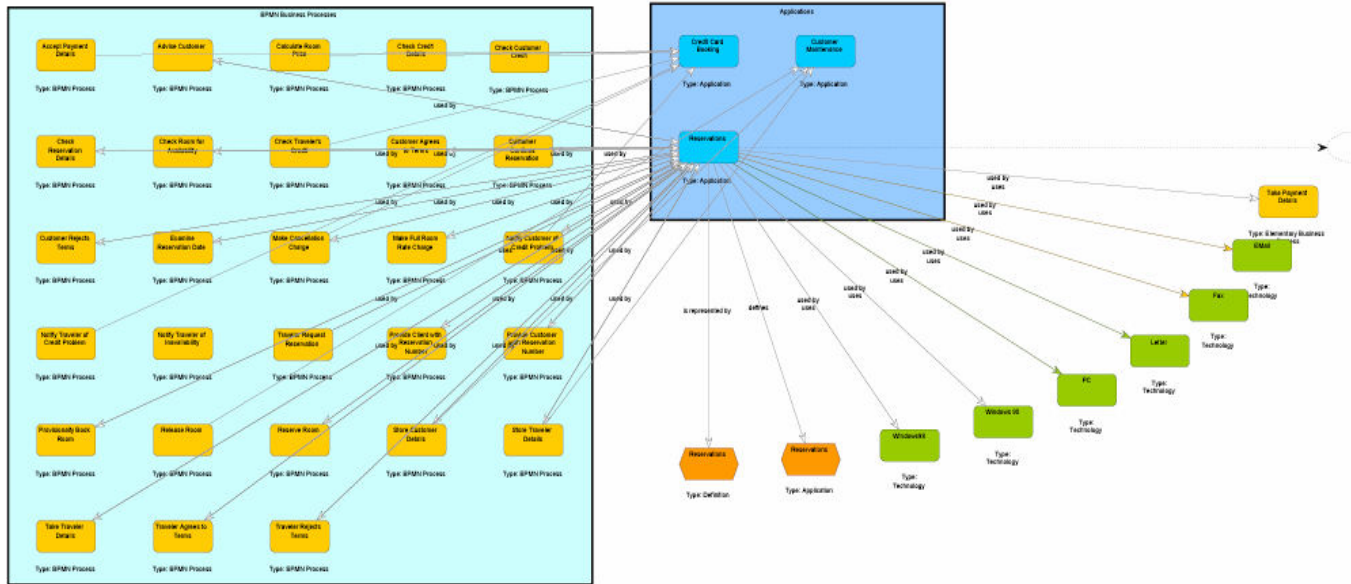
# Transformation du SI

- Transformer le SI a de nombreux impacts en terme d'architecture, il faut donc:
  - ▶ Analyser l'existant et faire le tri pour définir la cible
  - ▶ Prioriser les nouveaux besoins et analyser la valeur stratégique de chacun
  - ▶ Mettre en œuvre un programme de transformation pluriannuel
    - Synergie de nombreux projets
    - Planification et analyse des écarts entre l'architecture cible et les jalons



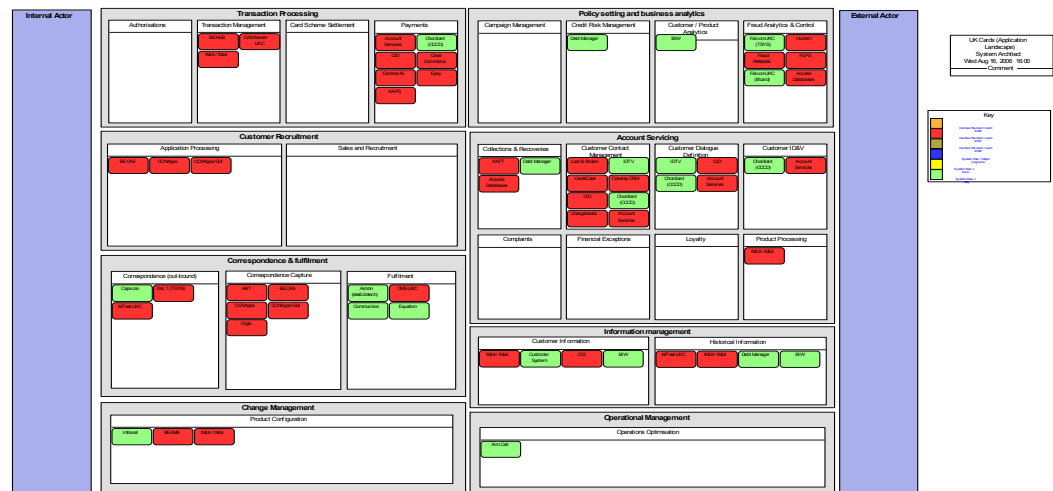
# Analyse d'impact

Applications Supporting (BPMN) Business Processes



- Visualisez les liens entre éléments d'architecture

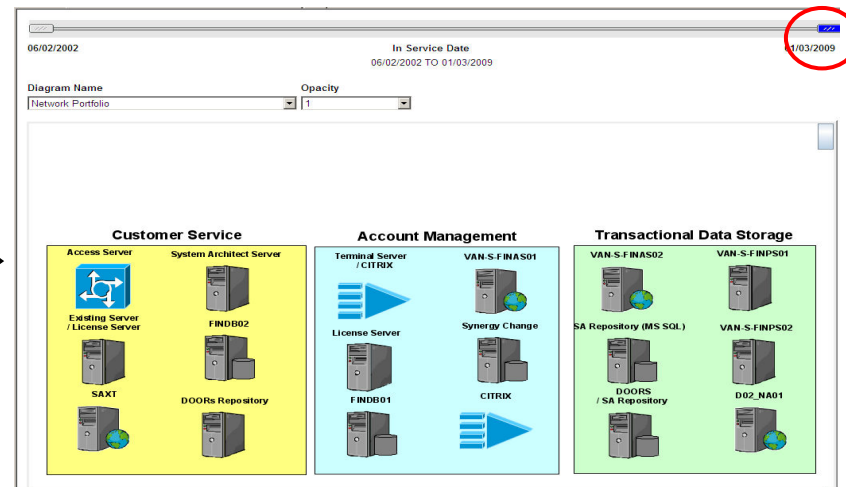
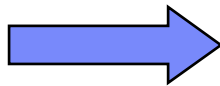
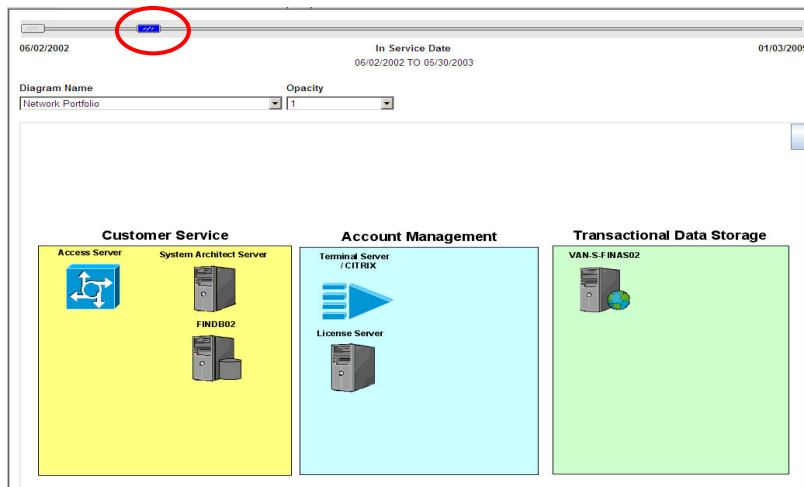
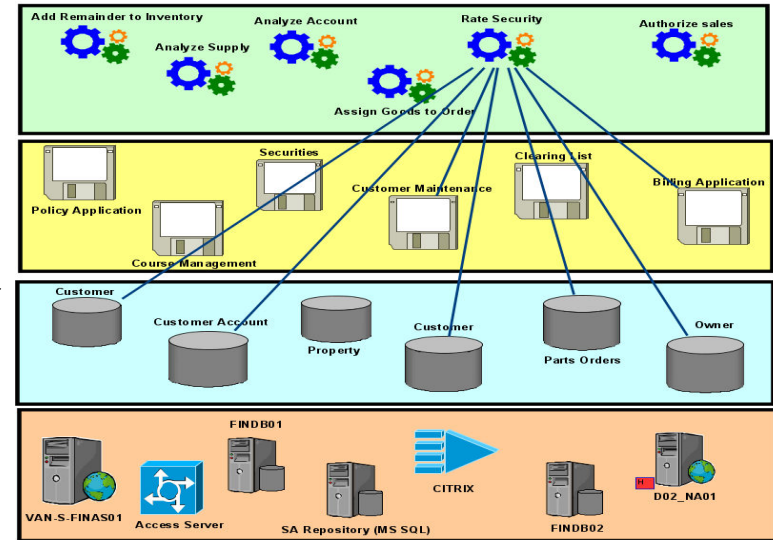
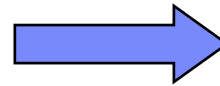
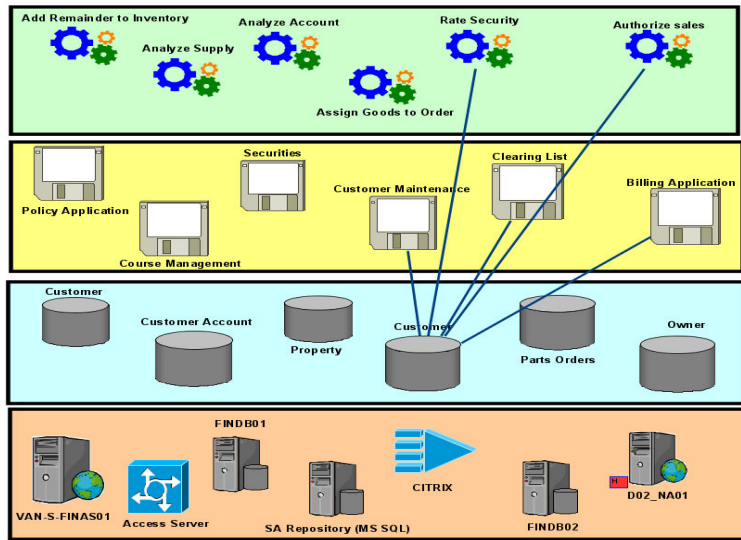
- Génération de rapports visuels suite à des requêtes sur le référentiel



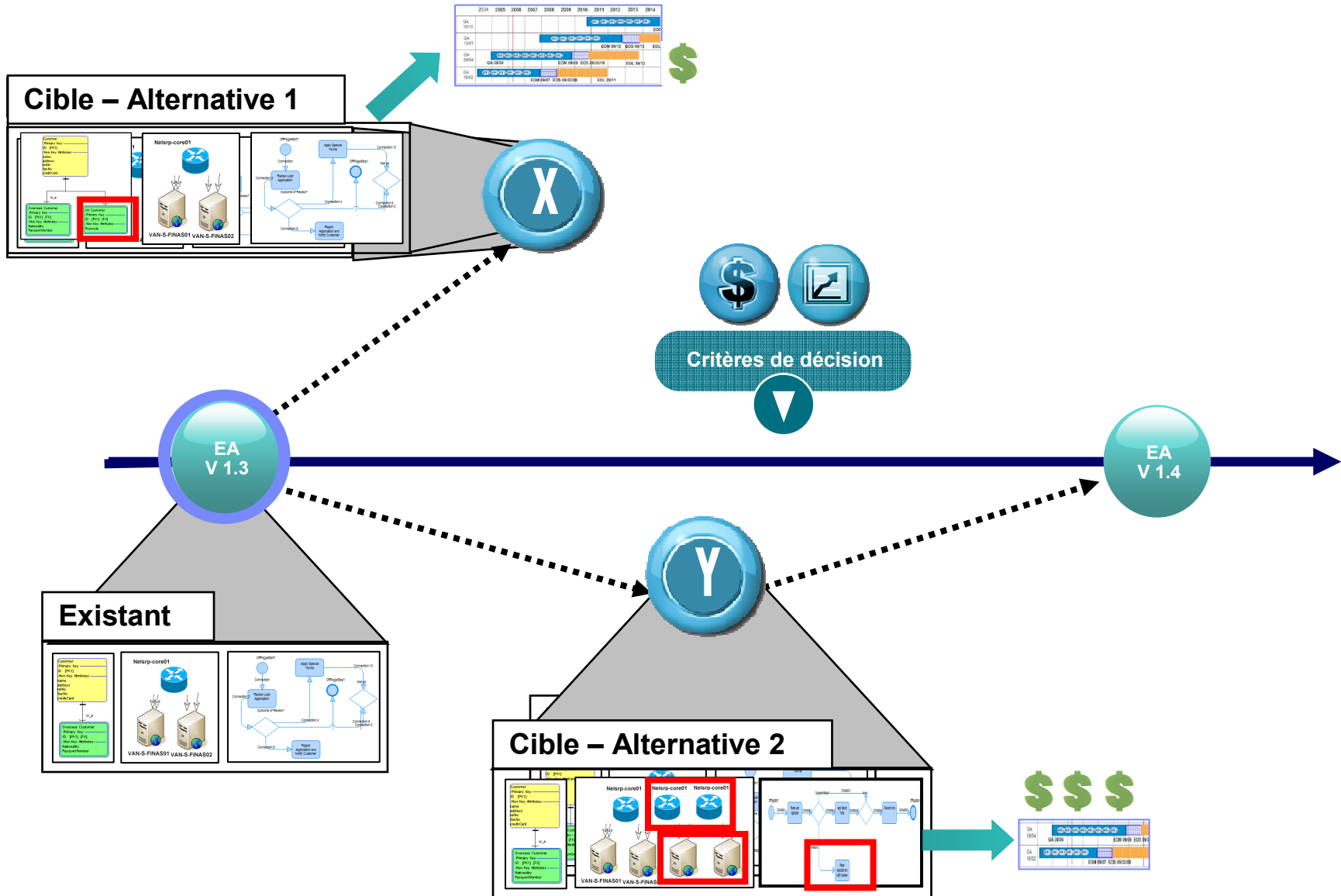
# Gérer la transition entre paliers d'architectures

## Courante

## Cible



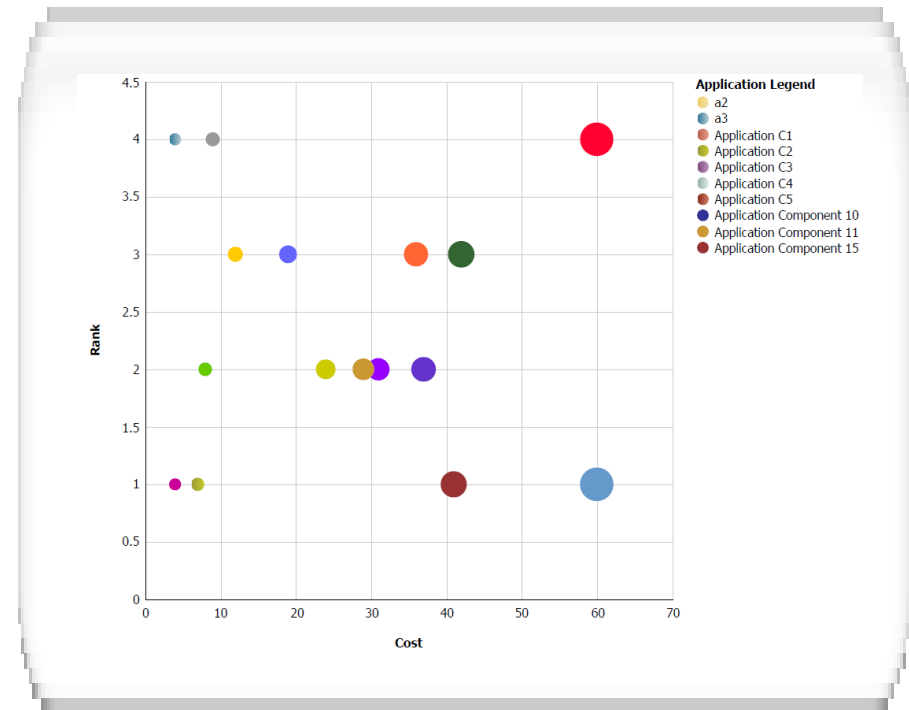
# Analyse et priorisation des projets de transformation





## Analyse de la valeur de l'architecture existante:

- *Quelles sont les priorités métier?*
- *Quels sont nos assets métier/technologiques?*
- *Quels assets sont redondants ou obsolètes?*
- *Où pouvons-nous réduire les coûts?*
- *Quels processus métiers fonctionnent correctement?*
- *Comment sont gérées les priorités des projets ?*



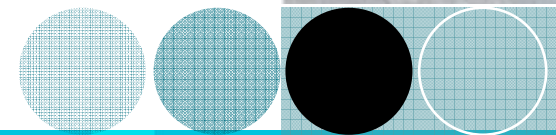
*“for every \$1 of discretionary spending (i.e., new projects and major enhancements), up to \$5 is spent on support, maintenance and infrastructure during the life of an application”*

*Gartner Group*



## Agenda

- Présentation de Rational System Architect
  - ▶ Modélisation
  - ▶ Référentiel commun
  - ▶ Analyse d'impact
  
- Rational et OSLC ?
  - ▶ Liens SA / Doors via RTC
  - ▶ Liens Design Manager



# Qu'est ce que l'OSLC

- La vidéo présentée lors de la session SolutionsConnect est disponible à l'adresse suivante : (Cliquer sur le lien pour y accéder directement):
  - <http://open-services.net/resources/videos/open-services-for-lifecycle-collaboration-introduction/>



# Rational et OSLC : Traçabilité à l'échelle de l'entreprise

*Know what you want...*

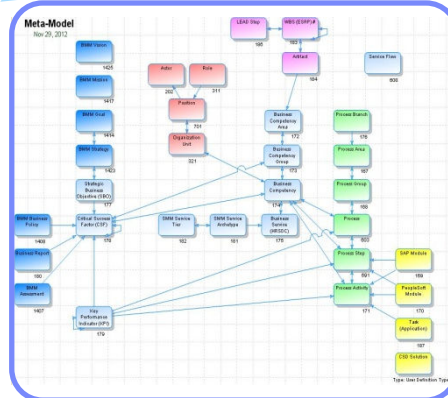
**All Features (202)**

- Automate Financial Signing Authority (1)
- A custom developed solution for all Delegated Fina... (3)
- HRSDC has established financial signing authority (4)
- The organizational structure and numbering in SAP (5)
- The Time and Labour module in PeopleSoft is not cu... (6)
- HRSDC will use the existing PWGSC/IFMS solution fo... (7)
- Automated FSA process shall support PeopleSoft (8)
- Automated FSA process shall support SAP (9)
- Automated FSA process shall support SDI (10)
- Default GL (LOBJ) based on Material Group (GSIN) in the Requisition (11)

Previous | 1 2 ... 21 | Next

**Requirements Management**

*know what to build...*



**Architecture Management**

*know what to test for.*

**Test Team**

Work Item: Create

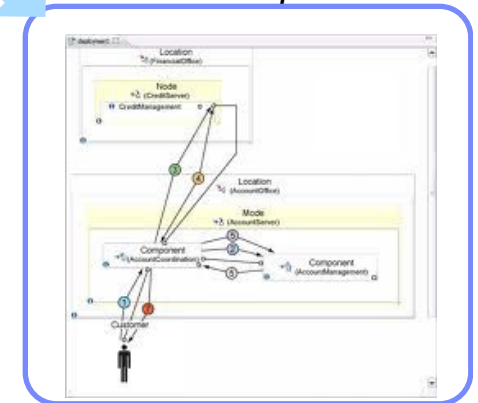
Specify the test team that will execute on this test plan. Test teams are defined by an administrator selecting the Manage Team Areas button.

Test Team:

Team Members: Michael Kelly (mike@michaeldkelly.com)  
Tester One (tester\_one@testcompany.com)  
Tester Two (tester\_two@testcompany.com)

**Testing Planning**

*Test and implement*



**Testing**

Every requirement is aligned to one or more architectural objects...

**Change Management**

...and also inherently linked into test plans.



# System Architect and Jazz : OSLC Linking

- Permet d'établir des liens avec les outils supportant OSLC pour la gestion de changements, d'exigences.
- Des liens OSLC apparaissent dans SA
- Le survol d'un lien OSLC permet d'avoir un aperçu dans une fenêtre pop-up sans quitter SA.
- On peut accéder aux détails en naviguant directement vers l'outil concerné.

The screenshot shows a System Architect window titled 'International Hotel Reservation (Business... test (Explorer))'. It displays a model with two elements: 'Hotel Kitchen' (Type: Location) and another 'Hotel Kitchen' (Type: Picture). The 'Location' element is linked to 'DOORS requirement 10: Functions and Purpose' (Type: OSLC Link) and 'Task 13: Task created by me' (Type: O). The 'Picture' element is linked to 'Task 13: Task created by me(Defect)' (Type: O). A pop-up window shows details for 'Task 13: Task created by me(Defect)', including status, resolution, summary, and description.

Status	Resolution	Summary
Now		Task created by me

Details			
Type:	Task	Tags:	
Severity:	Normal	Owned By:	Unassign
Found In:	Unassigned	Priority:	Unassign
Creation Date:	17 May 2011 15:37	Planned For:	Unassign
Created By:	John Crouchley	Estimate:	
Project Area:	Test	Time Spent:	
Filed Against:	Test	Due Date:	Unassign

**Quick Information**  
Subscribers (1): JC

**Description**  
This is my description

[Details](#)

## Bénéfices:

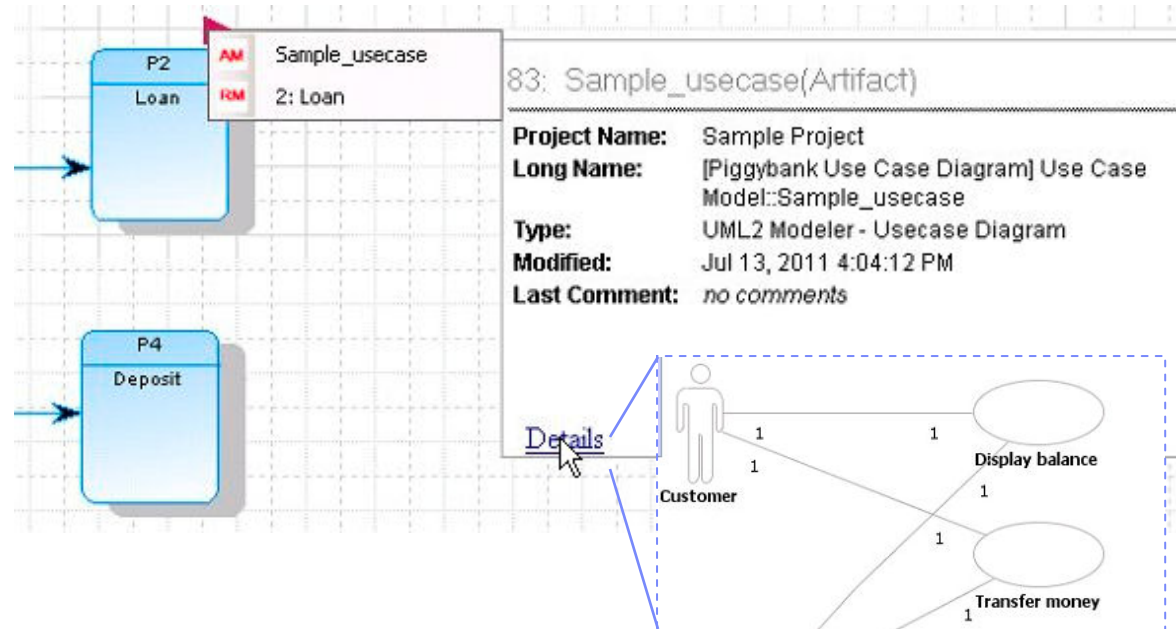
- Traçabilité entre modèles d'architecture et d'autres éléments via OSLC
- Evite les Intégrations point à point entre outils





# System Architect & Solution Design (Rhapsody & Software Architect)

- Traçabilité entre un modèle System Architect et implementation via Design Manager
- Lien entre un modèle de composant technique vers sa specification dans l'EA
- Visualiser les diagrammes avec navigation vers la source

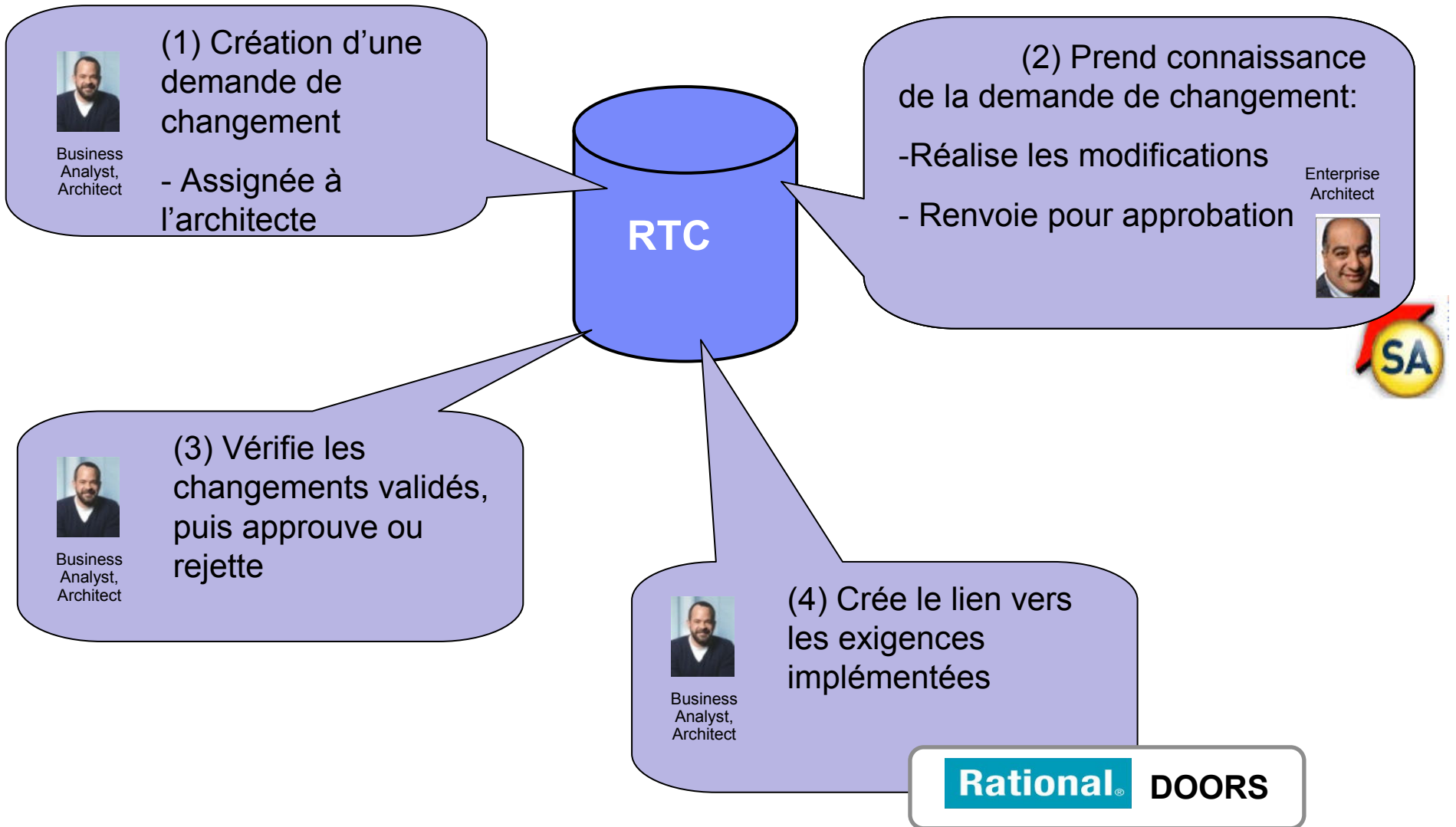


## Recapitulatif OSLC pour System Architect

- System Architect s'intègre avec les produits suivants en OSLC:
  - ▶ Rational Requirements Composer et Doors Web Access pour la gestion d'exigences
  - ▶ Rational Team Concert, pour la gestion des changements
  - ▶ Rational Design Manager pour la gestion des modèles d'architecture détaillés



## Exemple de workflow : SA / Doors via RTC





### Learn more at:

- [IBM Rational software](#)
- [IBM Rational Software Delivery Platform](#)
- [Process and portfolio management](#)
- [Change and release management](#)
- [Quality management](#)
- [Architecture management](#)
- [Rational trial downloads](#)
- [Leading Innovation Web site](#)
- [developerWorks Rational](#)
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