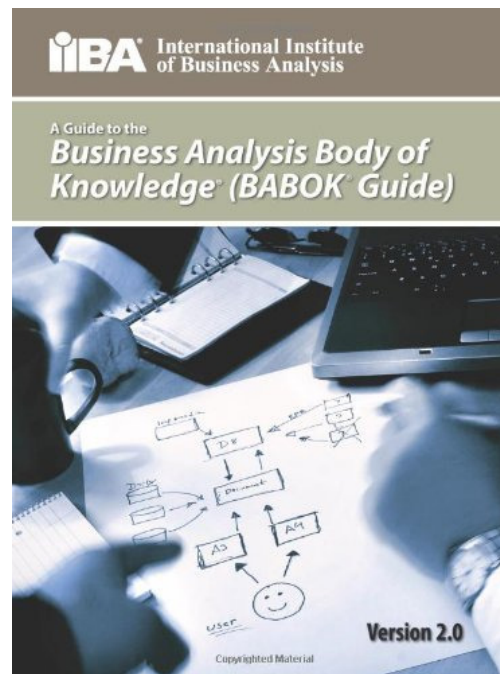


IIBA® Vendor Showcase

bizagi

blueprint

SPARX
SYSTEMS



Business Process Modeling

Wed. May 11, 2011



Bizagi Process Modeler

How we meet Business Analyst's needs

bizagi

Copyright ©2011- bizagi

Introduction



Bizagi Process Modeler

- More than 700,000 users
- 180 + countries
- More than 400 universities around the world
- Diagram and document
- Freeware application:
www.bizagi.com
- Supports BPMN standard

Choosing the best technique is complex

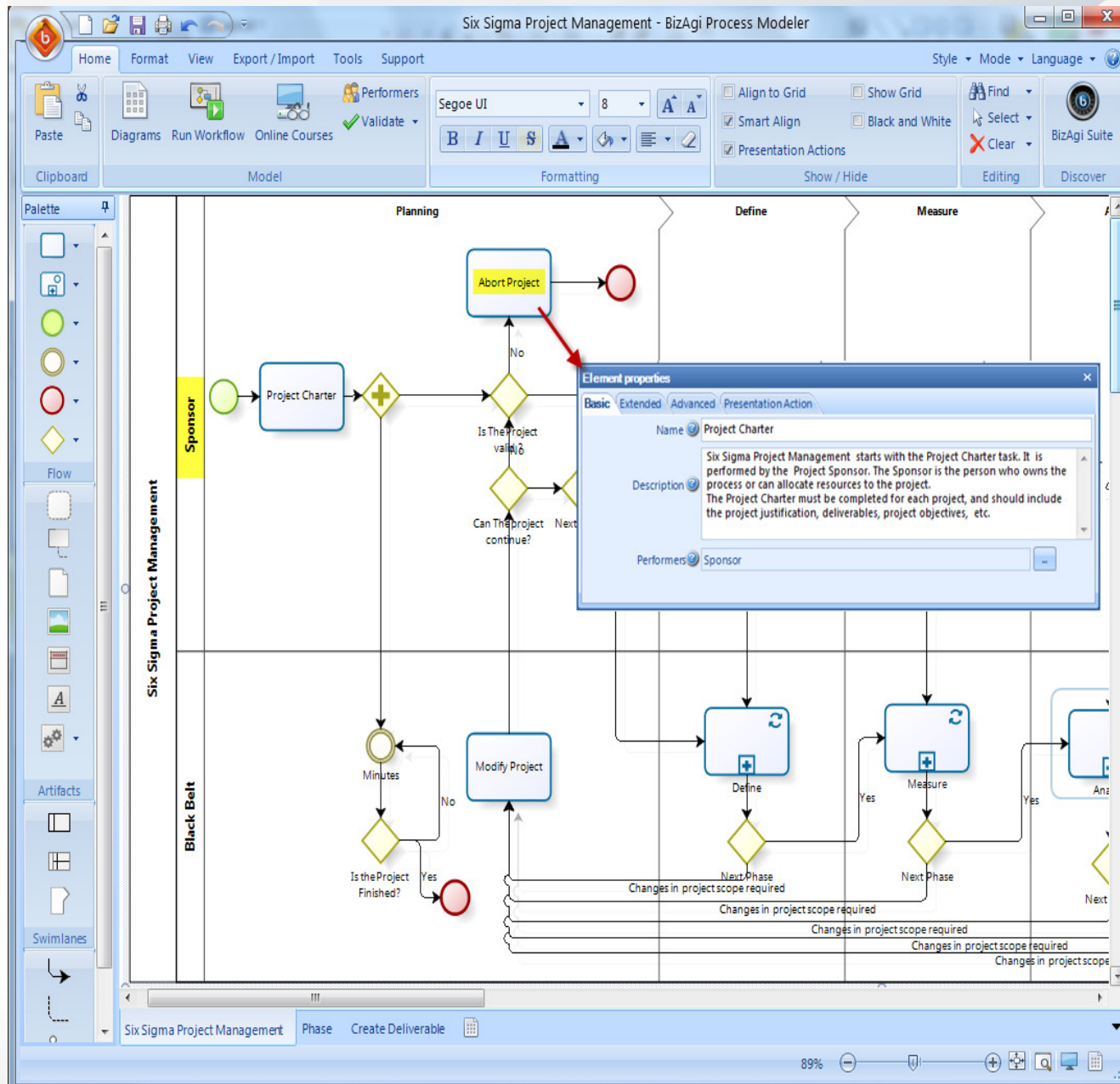
- Business Analysis Planning & Monitoring
 - Plan Business Analysis approach
 - Conduct Stakeholder Analysis
 - Plan Requirements Management Process
- Elicitation
- Enterprise Analysis
- Requirements Analysis
- Solution assessment and validation



Bizagi Process Modeler

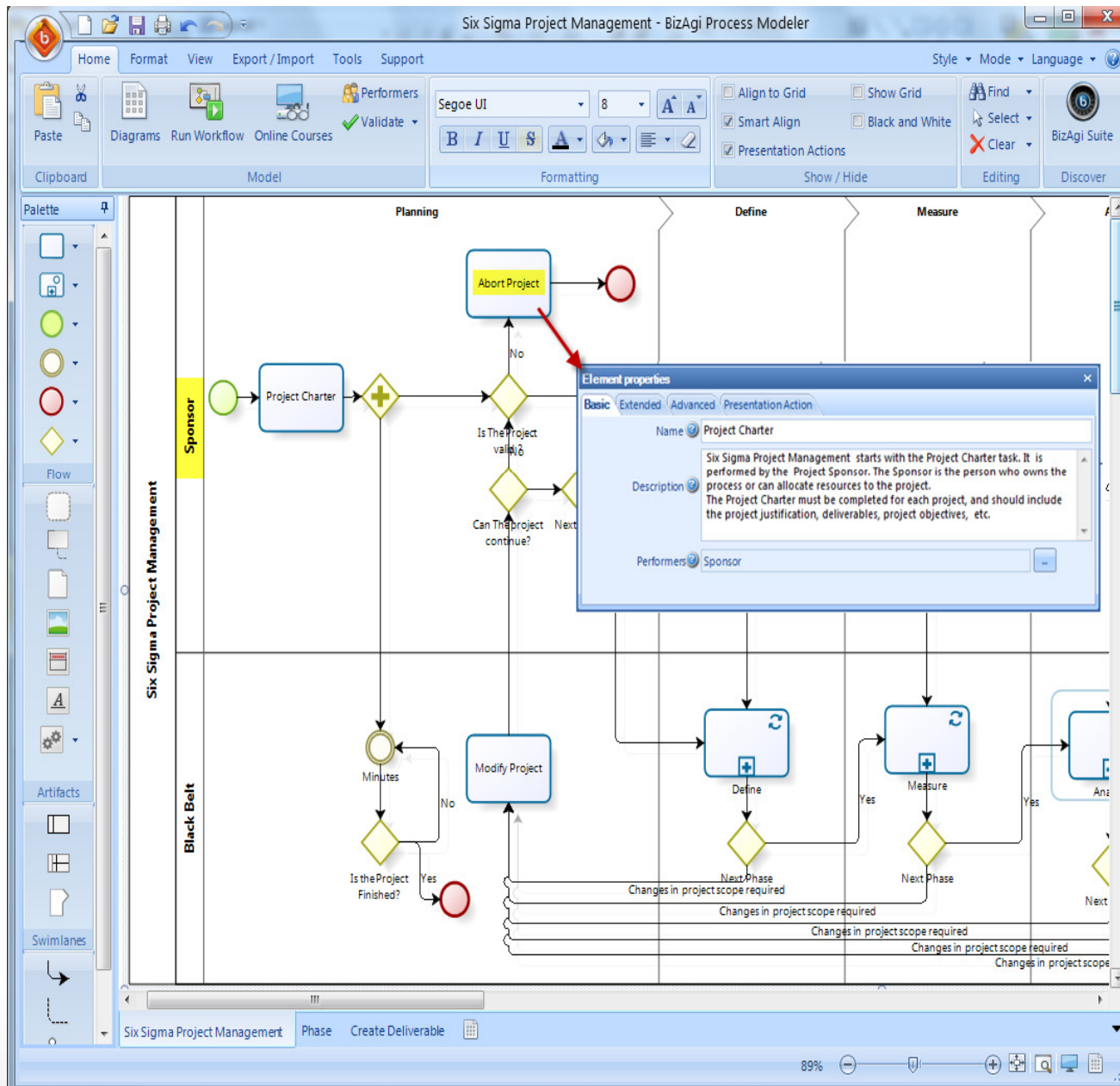
bizagi

Knowledge area: Business Analysis Planning & Monitoring



- ✓ Select approach
- ✓ Identify stakeholders

Plan Business Analysis approach

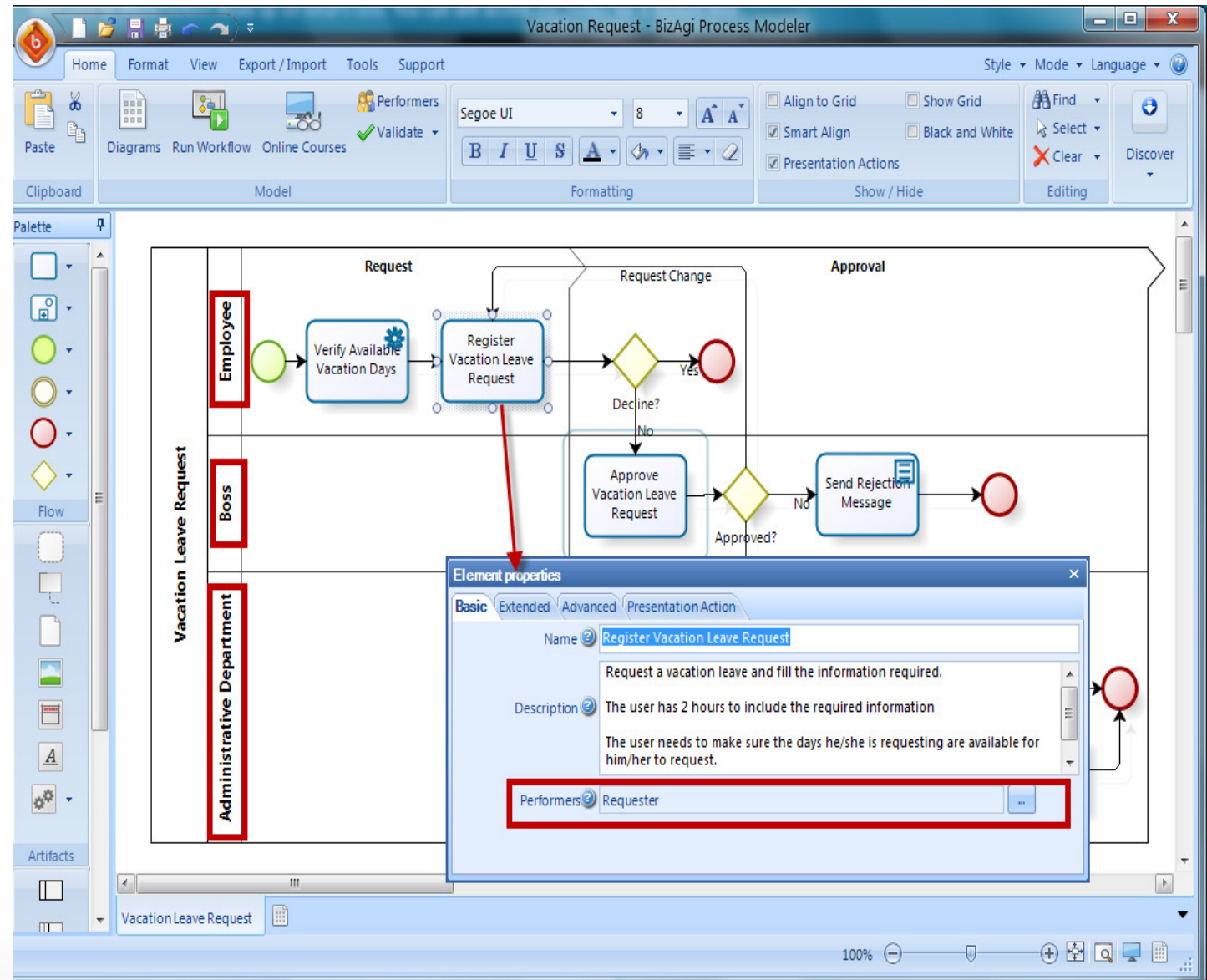


- ✓ How tasks are performed
- ✓ When tasks are performed
- ✓ Techniques to be used
- ✓ Deliverables to be produced
- ✓ Stakeholders

Conduct Stakeholder Analysis

Initially identify:

- ✓ Roles
- ✓ Responsibilities
- ✓ Requirements
- ✓ Needs

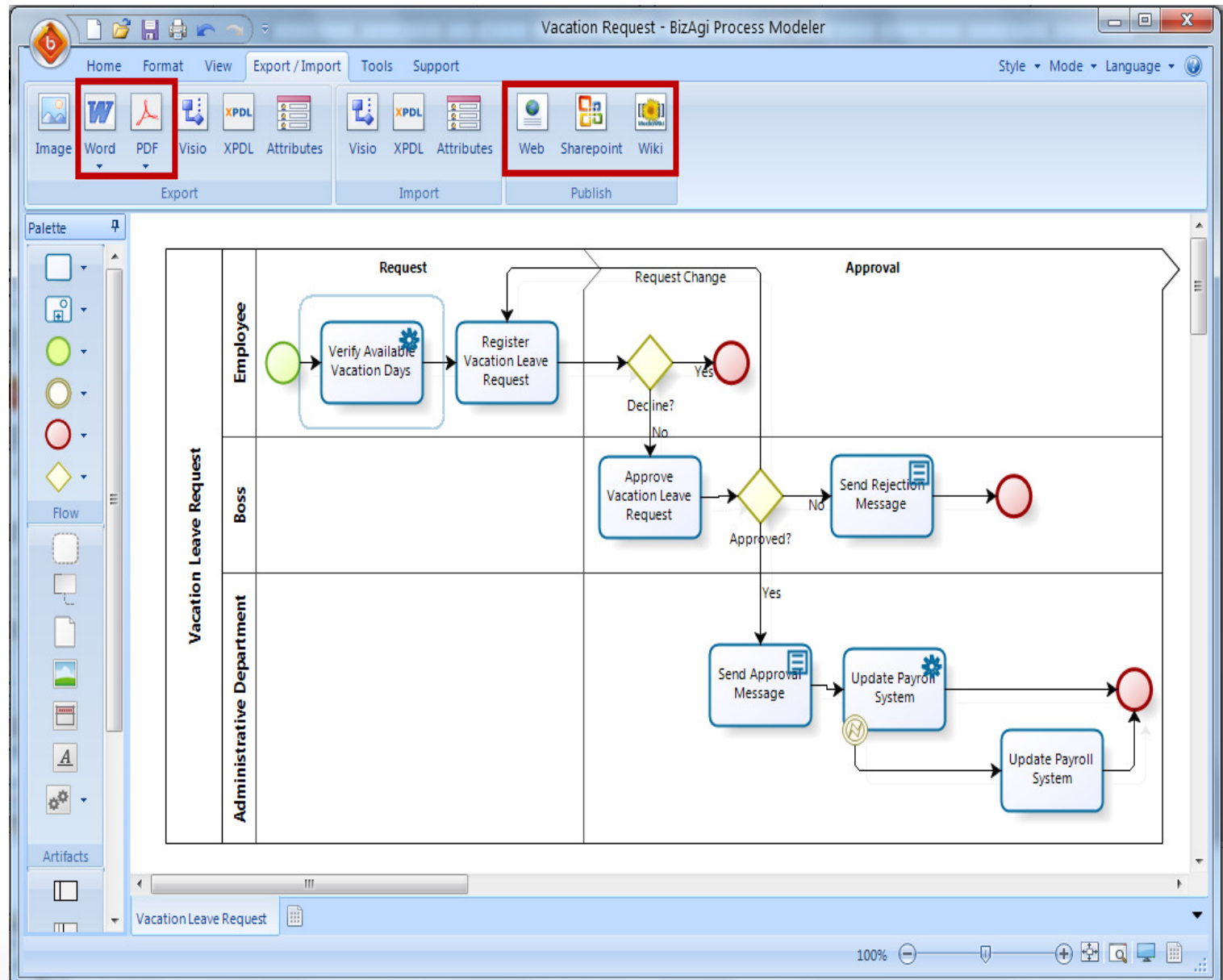


Plan Requirements Management Process

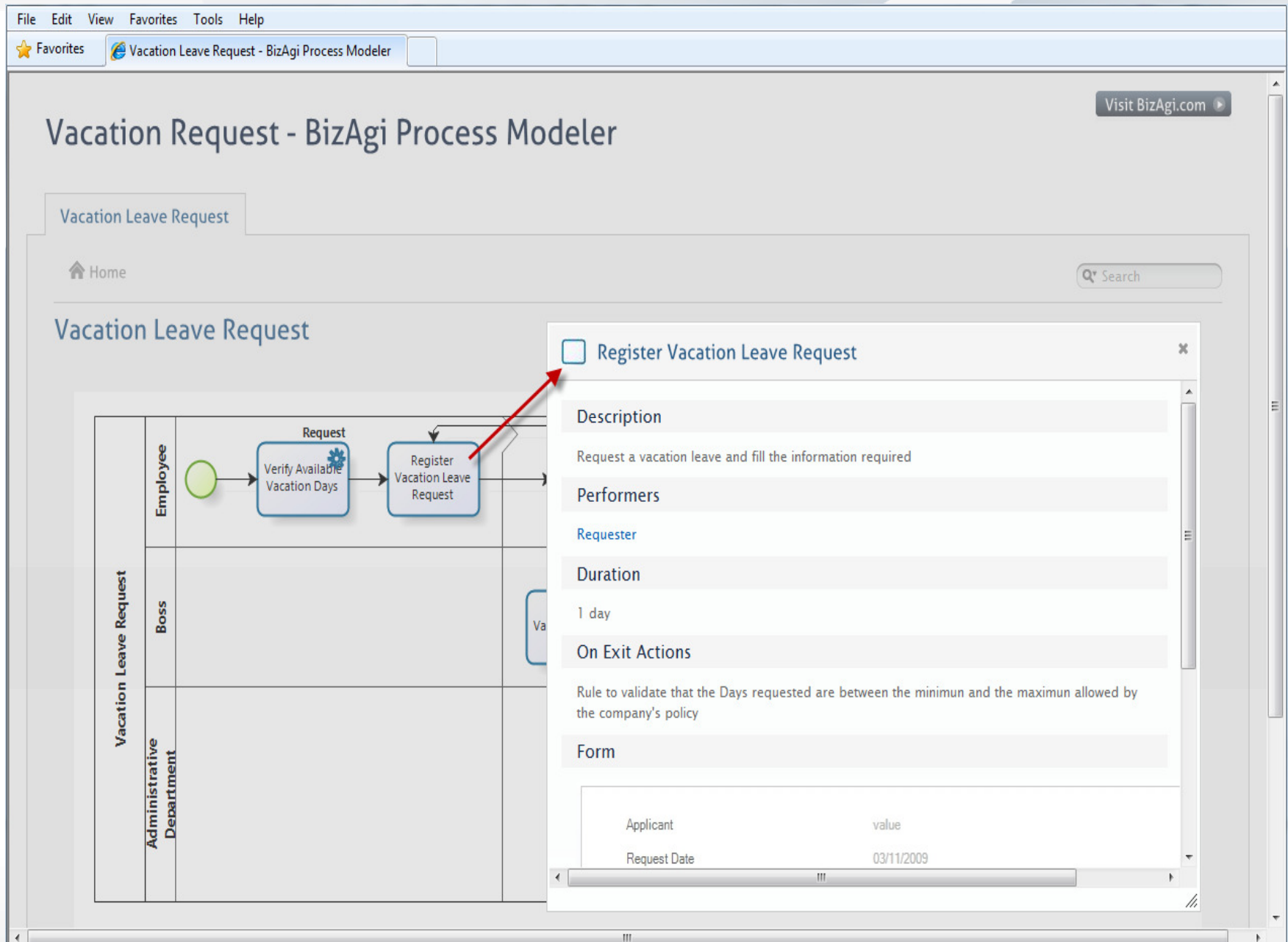
Share documentation:

- ✓ Word
- ✓ PDF
- ✓ Web
- ✓ Wiki
- ✓ SharePoint

To approve all requirements!

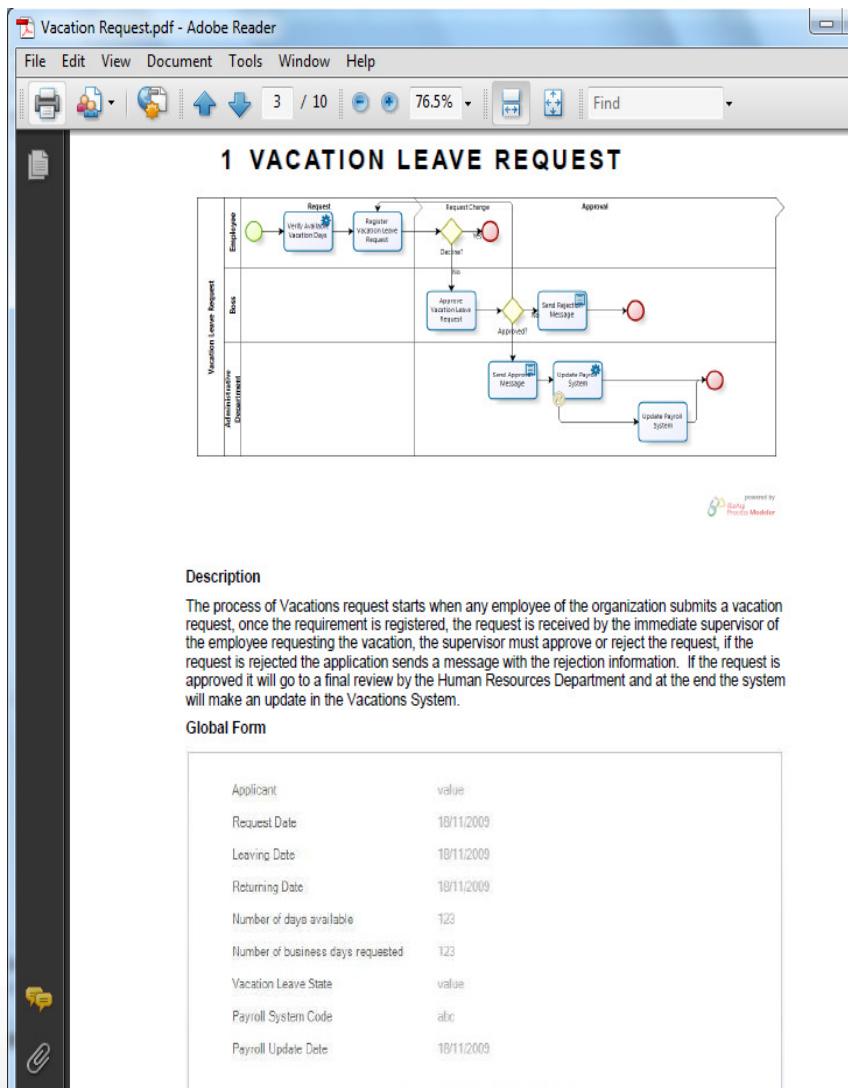


Plan Requirements Management Process



Knowledge area: Elicitation

Process exported to PDF to share with stakeholders – plus BPMN!



Vacation Request.pdf - Adobe Reader

File Edit View Document Tools Window Help

5 / 10 100% Find

1.1.1 PROCESS ELEMENTS

1.1.1.1 Verify Available Vacation Days

Description

Web service that connects to the internal system to get the available vacation days for the applicant

On Enter Actions

Rule to set Requester and Request Date

WS Input

Applicant's name

WS Output

Available vacation days number

Implementation

WebService

1.1.1.2 Register Vacation Leave Request

Description

Request a vacation leave and fill the information required

Performers

Requester

Duration

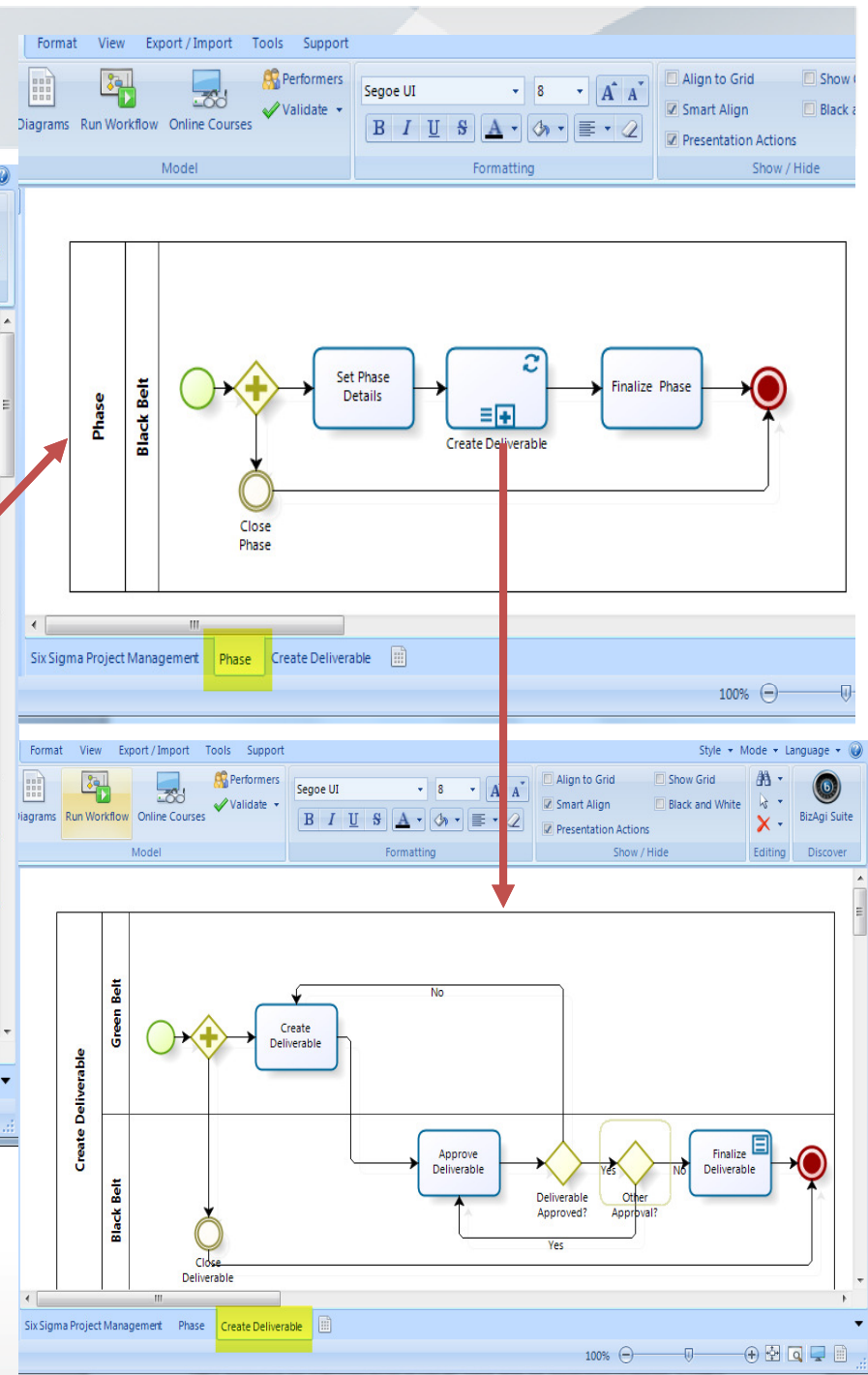
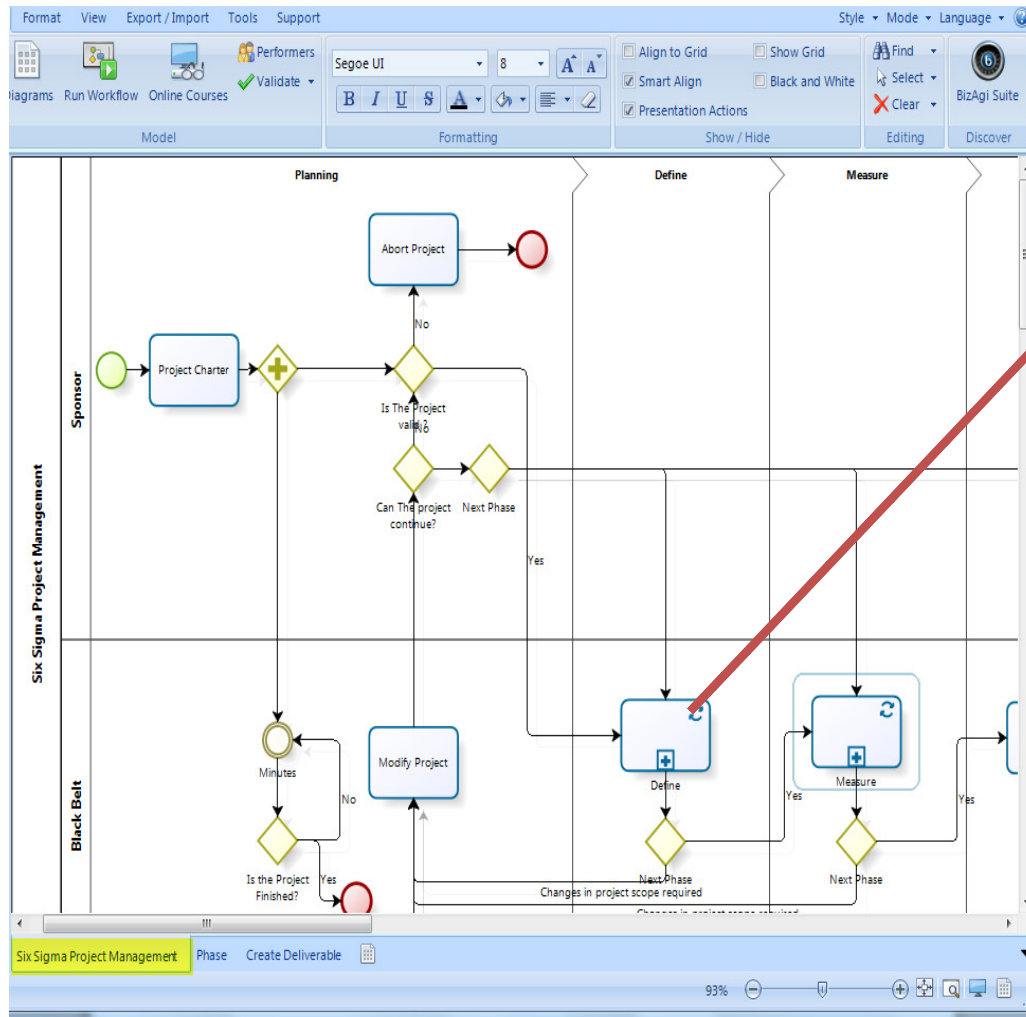
1 day

On Exit Actions

Rule to validate that the Days requested are between the minimum and the maximum allowed by the company's policy

8.50 x 11.00 in

Knowledge area: Enterprise Analysis



Knowledge area: Requirements Analysis

The screenshot displays the Bizagi Process Modeler interface. The main workspace shows a BPMN diagram for the 'Accounts Payable' process, organized into swimlanes: Reception, Financial Assistant, Administrative Manager, and Accounting. The 'Reception' swimlane contains a 'Receive Invoice' task. The 'Financial Assistant' swimlane contains a 'Review Invoice' task. The 'Administrative Manager' swimlane contains a 'Return Invoice to Supplier' task. The 'Accounting' swimlane contains an 'Approve products' task and an 'Update Financial ER' task. A red arrow points from the 'Return Invoice to Supplier' task to the 'Element properties' panel.

The 'Element properties' panel is open, showing the 'Basic' tab. It contains the following sections:

- Scope**: Text ✓
Management starts with the Project Charter task. It is performed by the Project Sponsor. The Sponsor is the person who owns the process or can allocate resources to the project. The Project Charter must be completed for each project, and should include the project justification, deliverables, project objectives, etc.
- Activity's actions**: Table ✓

Type	Description
On Enter	Add the deliverables related to the phase
On Exit	Set the initial phase, Define
- Activity Image**: Image ✓
Project Chapter.png
- Stakeholders**: Selections ✓
☒ General Manager ☒ Black Belt ☒ Project team ☒ Process workers

Knowledge area: Solution assessment and validation

- ✓ Facilitate successful implementation
- ✓ Validate all components solution with all stakeholders
- ✓ Make the solution come to life

Bizagi Process Modeler



Thank you!

Visit our web page

Download bizagi Process Modeler for free!

www.bizagi.com

Contact us for more information

marketing@bizagi.com

bizagi

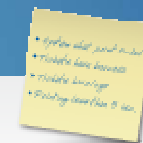
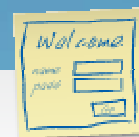


Business Process Modeling

Providing context for software requirements

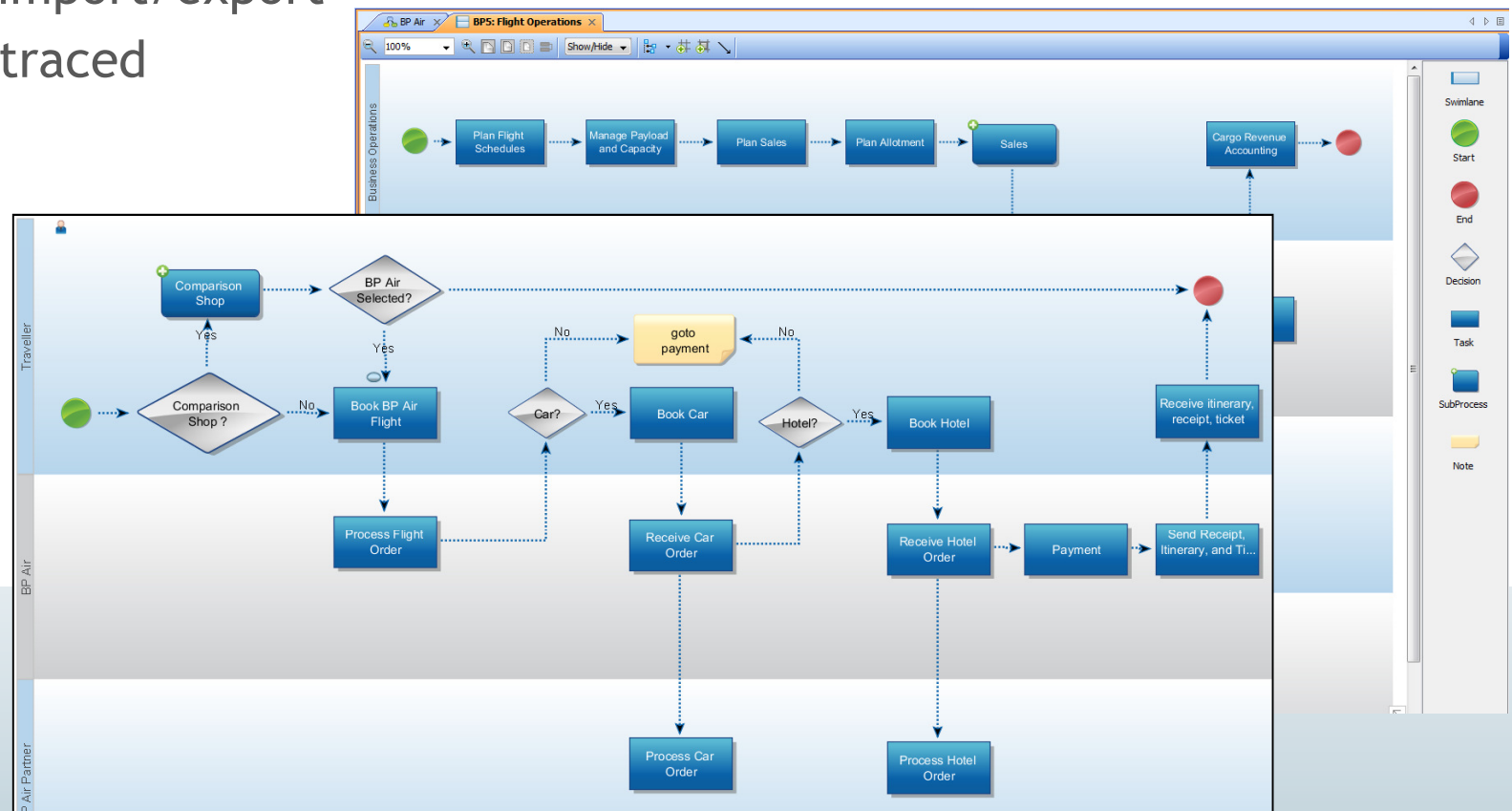
Overview

May 11th, 2011



- **Blueprint Requirements Center**
 - A complete Business Analyst Workbench for the definition and management of software requirements
- **This Presentation**
 - Business Process for the purpose of providing context for software requirements
 - To help develop the 'right' requirements for the business need
 - To help maintain alignment throughout the development lifecycle
- **BABOK**
 - Focus on the Business Analysis Planning & Monitoring Knowledge Area
 - This presentation:
 - Process Modeling (9.21) and Structured Walkthrough (9.30)

- Light-weight, fast & easy 'sketching' of business process
- Supports nested sub-processes
- Visio import/export
- Fully traced

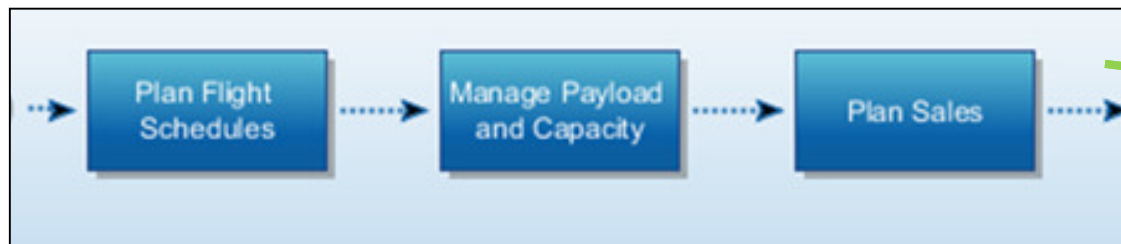




Precisely Reference external files

Reference specific information in Word Documents, PDFs, and Excel Spreadsheets.

Business Process



Relationships

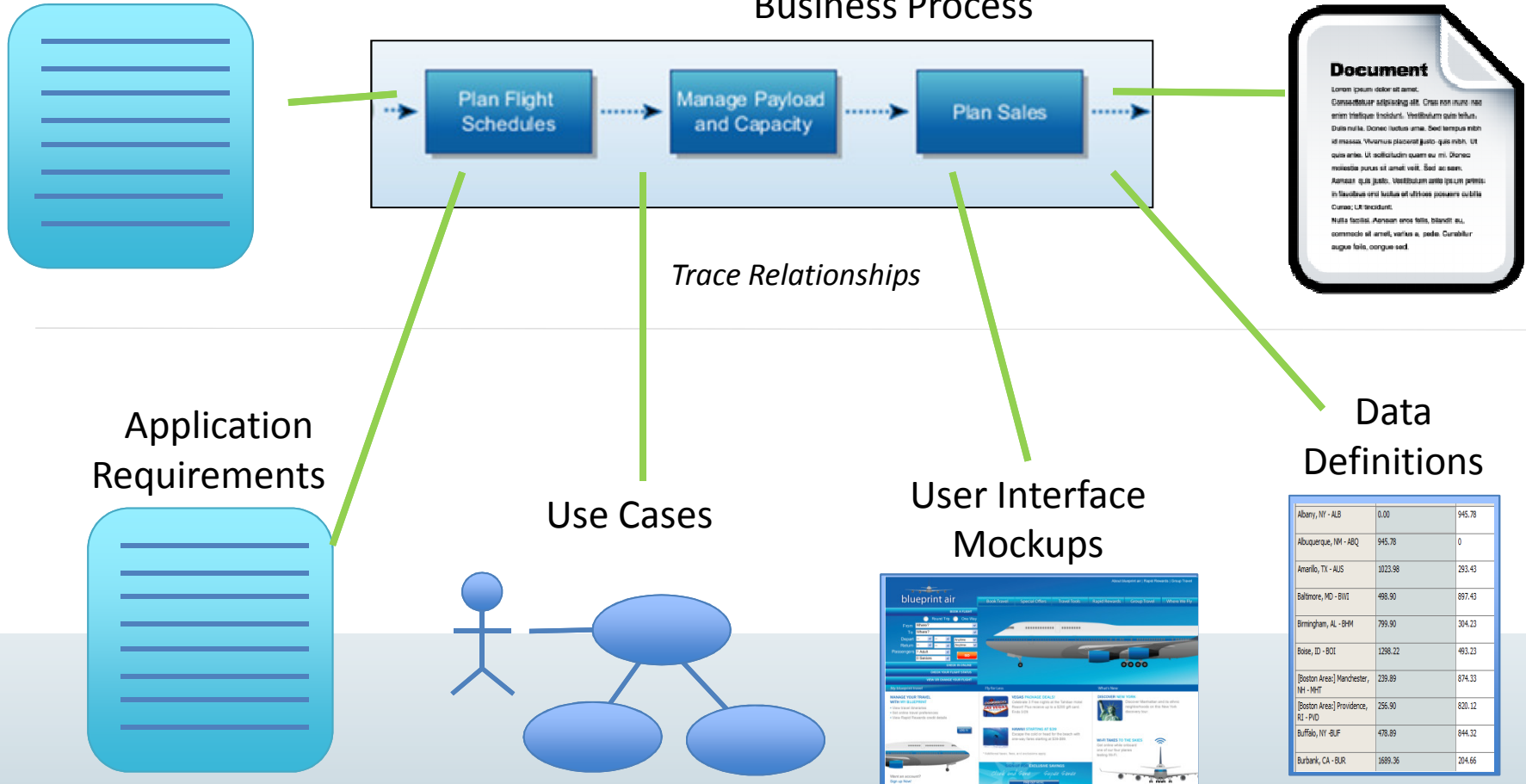
External Documents & Files

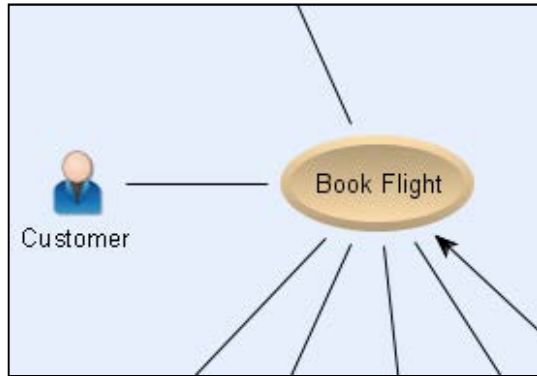


Business Requirements, Objectives, and Rules

External Documents & Files

Business Process





Properties	
Name	Customer
ID	AC1
Description	This is the main user of the online reservation system. It could be the "Traveller" or someone booking on their behalf such as an assistant or travel agent.
Custom Icon	..\Images\agent.JPG
Related artifacts	Traces from: BP1:SL1; BP2:SL2; BP3:SL1; BP
Associations	
Book Flight	

Customer

Panel discussion: Meeting passenger needs on board

Jean-Pierre Lefebvre, Association of European Airlines; he questioned the safety element. Can a plane still r disability regulations.

Andrew Clarke, European Regions Airline Association; they represent 60 airlines in 29 EU States. There Airbus. Due to the mobility of aviation U.S. standards have to be worldwide.

Ian Clayton, Easyjet; The unit costs for PRMs are higher than for other passengers. The Regulation does not t travel, priority seating etc.

The main points from the discussion were:

- Some PRMs can get out of a plane in 90 seconds and much faster than an old person who may not be cla smoke filled cabin.
- There should be more opportunities for the disabled on planes e.g. blind people being able to listen to videos understand how to treat them.
- The current ratio is one person capable of assisting in an emergency evacuation to one person possibly not. to understand instructions must travel with an attendant.
- It is illegal in Europe to put a limit on the number of disabled people on a plane but it is open to interpretation governments.
- A data system could be developed which records the details of disabled people and this would help to prevent
- The issue of Guide dog travel is currently being examined by the Department for Transport in the UK as there

Tim May, Department for Transport (DfT), UK, said that the Regulation needs to be enforceable. Member St they are applied. They want to educate the industry on their obligations and passengers on their rights. Complaint (CEHR) and the Consumer Council in Northern Ireland. In the UK the Civil Aviation Authority (CAA) will be the e in other countries. They will monitor complaints and ensure the correct sanctions are taken. Most penalties will t have issued guidance to airlines on when it is acceptable to refuse to embark PRMs for safety reasons. They ar of Practice 'Access to Air Travel'. It is crucial that experiences are shared in order to make the Regulation work ef

Albany, NY - ALB	0.00	945.78
Albuquerque, NM - ABQ	945.78	0
Amarillo, TX - AUS	1023.98	293.43
Baltimore, MD - BWI	498.90	897.43
Birmingham, AL - BHM	799.90	304.23
Boise, ID - BOI	1298.22	493.23
[Boston Area:] Manchester, NH - MHT	239.89	874.33
[Boston Area:] Providence, RI - PVD	256.90	820.12
Buffalo, NY - BUF	478.89	844.32
Burbank, CA - BUR	1689.36	204.66

Use Cases
Actors

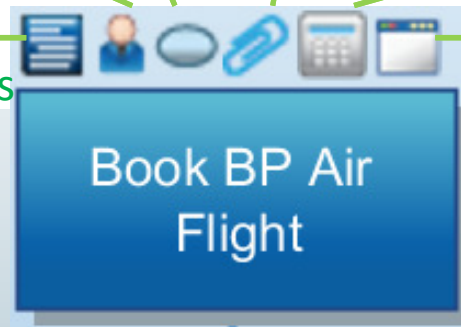
External Files

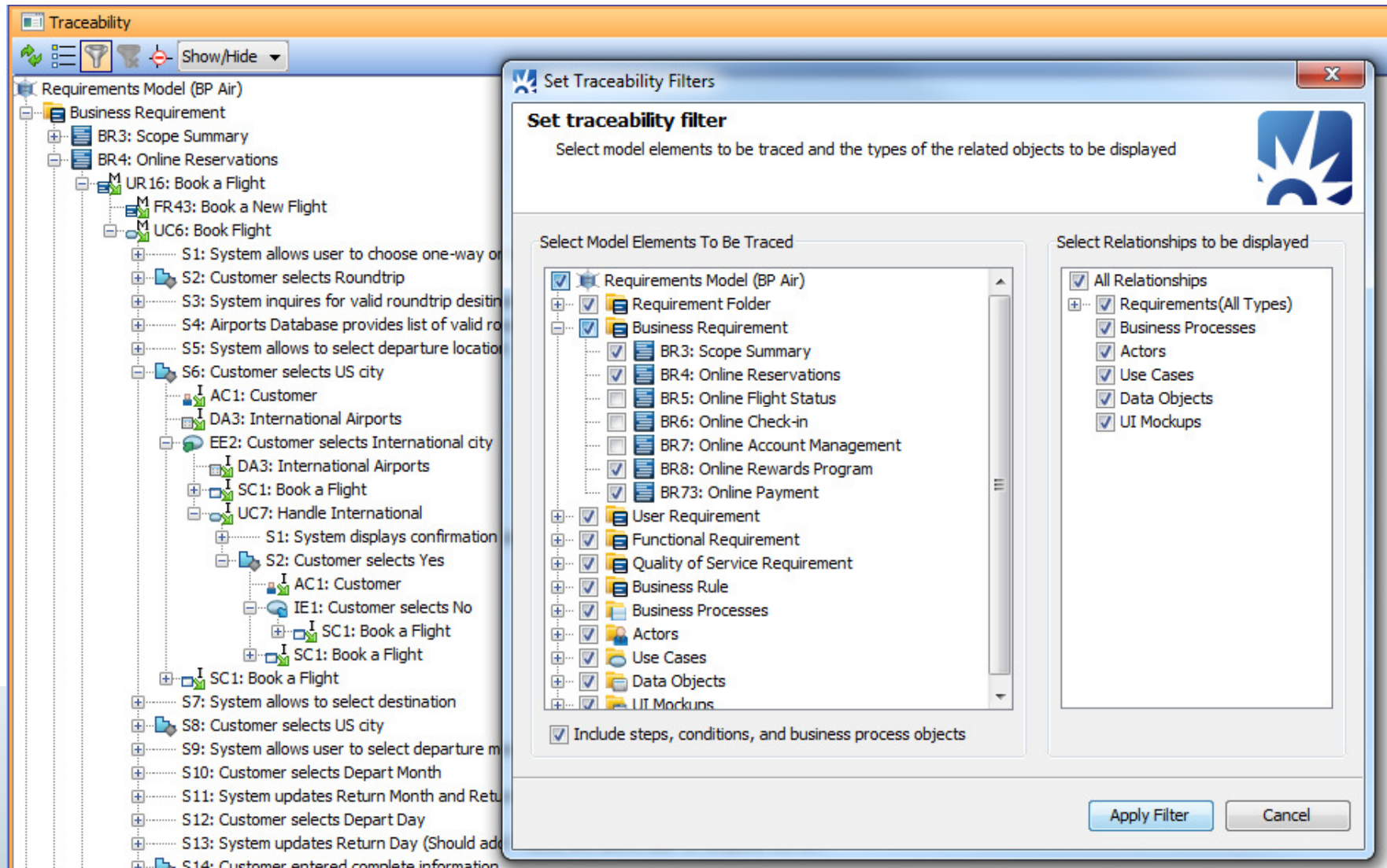
Data Definitions

Business Needs

UI Mockups

Online Reservations	BP Air needs to reduce cost of sales by providing an online reservation system.	Approved	High
Online Flight Status	BP Air needs to improve customer satisfaction by providing quick access to flight status information.	Proposed	Med
Online Check-in	BP Air needs to increase check-in efficiency by providing online check-in.	Approved	High
Online Account Management	BP Air needs to reduce customer service inbound calls by providing online account management.	Approved	High
Online Rewards Program	BP Air needs to improve customer retention by allowing customers to sign up for our rewards program online.	Deferred	Low
Online Payment	Payment for booked flights will be made online and will account for all applicable taxes and service charges imposed by government, governmental agencies, and airports.	Proposed	High





The screenshot displays the Trace Explorer application interface. On the left, a tree view shows a 'Requirements Model (BP Air)' with various elements including Business Requirements (BR3, BR4), Use Cases (UC6), and a detailed sequence of steps (S1-S14) for booking a flight. Overlaid on the right is the 'Set Traceability Filters' dialog box. This dialog allows users to select model elements to be traced and the types of relationships to be displayed.

Set Traceability Filters

Select model elements to be traced and the types of the related objects to be displayed

Select Model Elements To Be Traced

- ☒ Requirements Model (BP Air)
- ☒ Requirement Folder
- ☒ Business Requirement
- ☒ BR3: Scope Summary
- ☒ BR4: Online Reservations
- ☐ BR5: Online Flight Status
- ☐ BR6: Online Check-in
- ☐ BR7: Online Account Management
- ☒ BR8: Online Rewards Program
- ☒ BR73: Online Payment
- ☒ User Requirement
- ☒ Functional Requirement
- ☒ Quality of Service Requirement
- ☒ Business Rule
- ☒ Business Processes
- ☒ Actors
- ☒ Use Cases
- ☒ Data Objects
- ☒ UI Mockups

☒ Include steps, conditions, and business process objects

Select Relationships to be displayed

- ☒ All Relationships
- ☒ Requirements(All Types)
- ☒ Business Processes
- ☒ Actors
- ☒ Use Cases
- ☒ Data Objects
- ☒ UI Mockups

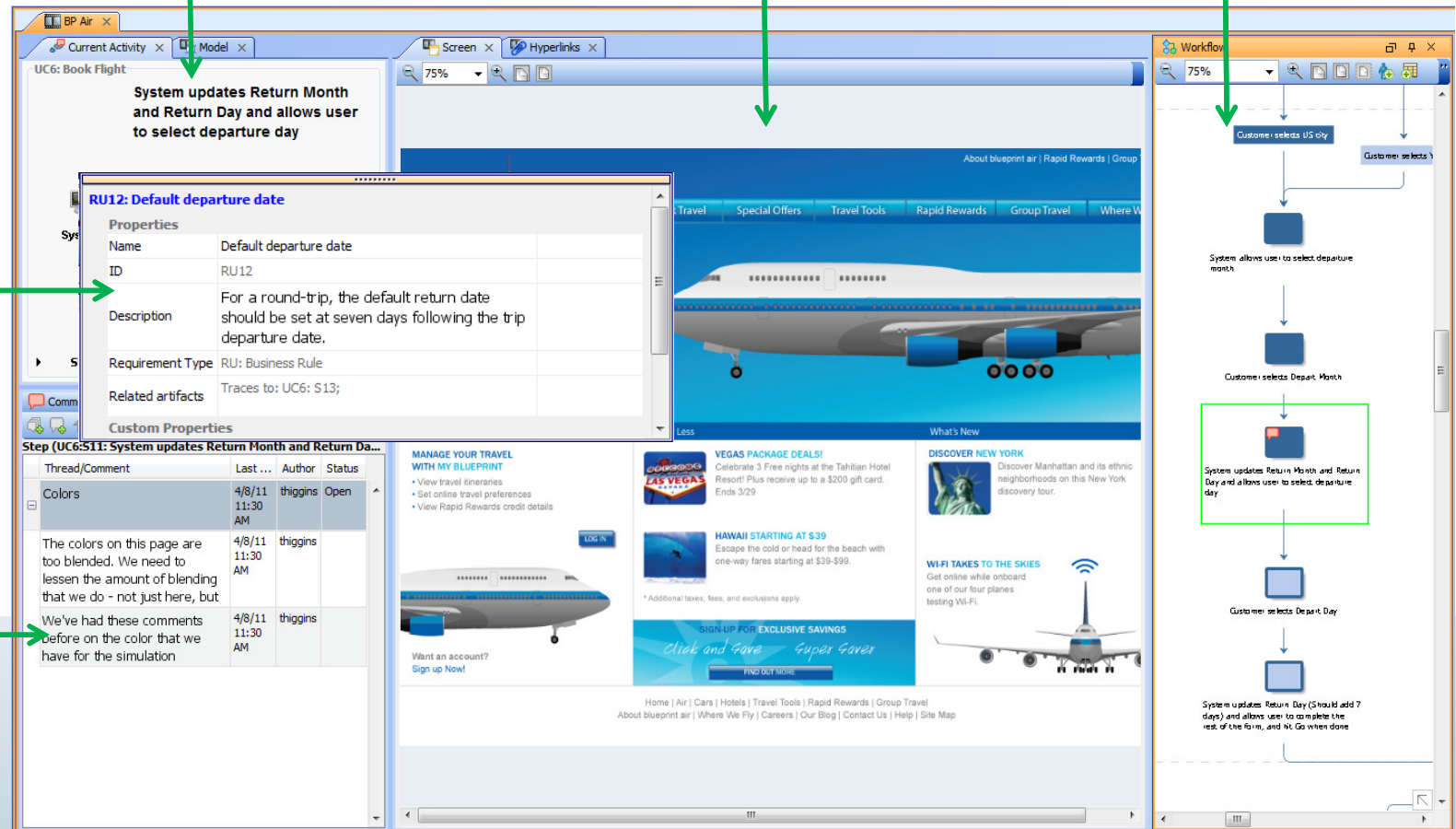
Buttons: Apply Filter, Cancel

Narrative

Interactive Screen Mockups

Traced Business Requirements, Rules, Process

Comments & Discussion



System updates Return Month and Return Day and allows user to select departure day

RU12: Default departure date

Properties	
Name	Default departure date
ID	RU12
Description	For a round-trip, the default return date should be set at seven days following the trip departure date.
Requirement Type	RU: Business Rule
Related artifacts	Traces to: UC6: S13;

Step (UC6:S11: System updates Return Month and Return Da...

Thread/Comment	Last ...	Author	Status
Colors	4/8/11 11:30 AM	thiggins	Open
The colors on this page are too blended. We need to lessen the amount of blending that we do - not just here, but	4/8/11 11:30 AM	thiggins	
We've had these comments before on the color that we have for the simulation	4/8/11 11:30 AM	thiggins	

Workflow:

```

graph TD
    A[Customer selects US city] --> B[System allows user to select departure month]
    B --> C[Customer selects Depart Month]
    C --> D[System updates Return Month and Return Day and allows user to select departure day]
    D --> E[Customer selects Depart Day]
    E --> F[System updates Return Day (Should add 7 days) and allows user to complete the rest of the form, and W. Go when done]
    
```

Business Analyst

Author & Prepare



Blueprint
Requirements
Center

Requirements
Package



Feedback &
Approvals



Blueprint
Reader

Blueprint
Reader

Blueprint
Reader

Stakeholders

Review & Approve





Structured Walkthrough via Generated Documents

Fully Configurable Word Format

Tables of Contents, Styles, etc.

Content from Requirements Center:
Diagrams, rich-text, tables, links ...

Detailed Specification

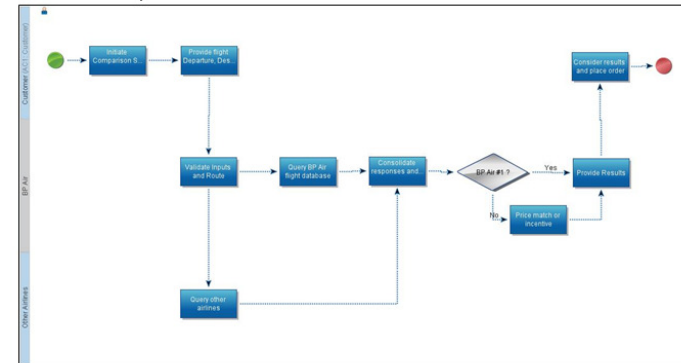
Model BP Air
Version Version 2
Description BP Air Online Requirements Model
Overview BP Air would like to expand its person to include a web presence, book flights, make changes to passes, as well as, book hotel internet site.
Key Dependencies This initiative is dependent on December, 2008. Planning of the needs of the IT modernization refer to Project Management
Scope This project will encompass an online booking system for Blue modifications or updates to the database modernization project

Contents

Requirements	5
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Related Single & List Value Data Elements:	57
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Related Requirements:	58

2

Business Processes: Comparison Shop



Customer {Actor: Customer}

ID	Name:	Description:
S1		Start Point
T1	Initiate Comparison Shopping	This task includes initiation of comparison of flights which includes providing credentials and selecting sources.
T2	Provide flight Departure, Destination, date, and other preferences	This task involves specifying the preferences which will identify the flights to be compared.
T9	Consider results and place order	This task involves performing analysis of the presented results and placing an order with one of the airlines.
E1		End Point

BP Air {Actor: BP Air}

ID	Name:	Description:
T3	Validate Inputs and Route	This task involves validation of the input data and selected routes.
T4	Query BP Air flight database	This task involves querying of the BP Air flight database with the flight parameters for comparison.

20

Optional redlines show changes since previous walkthrough/review – automatically!

Detailed Specification

Model BP Air

Version version 2

Description BP Air Online Requirements Model

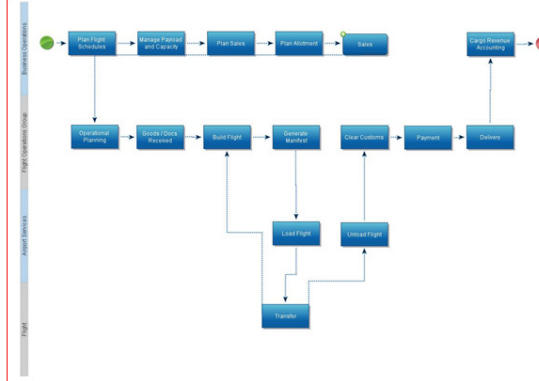
Overview BP Air would like to expand its customer service from ~~over the traditional phone~~ and ~~at the counter in person~~ to include a web presence. This expansion would allow customers to book flights, make changes to existing flights, check-in and print boarding passes, as well as, book hotel and rental car reservations from a secure internet site.

Key Dependencies This initiative is dependent on the IT modernization initiative begun in ~~January~~ ~~December, 2008~~. Planning of this project must be synchronized with the needs of the IT modernization initiative at all major milestones. Please refer to Project Management Office for details.

Scope This project will encompass all work related to developing and provisioning the online booking system for Blueprint customers. It will not involve any modifications or updates to the airline database system but must interact with the database modernization project team to ensure compatibility.

ID	Name:	Description:
SP1	Traveller Booking	BP Air per BP Air's travel agent agreement. <u>This subprocess involves the booking of travel by the Traveller.</u> Link to Sub Process: BP3: Traveller Booking
SP2	Agent Booking	<u>This subprocess involves the booking of travel by a proxy or agent on behalf of a traveller.</u> Link to Sub Process: BP2: Agent Booking
D1	Sales Type	Branch Conditions: Traveller is booking Agent is booking
E1		End Point

Flight Operations





Integration with HP Quality Center

Blueprint Requirements Center

Business Process

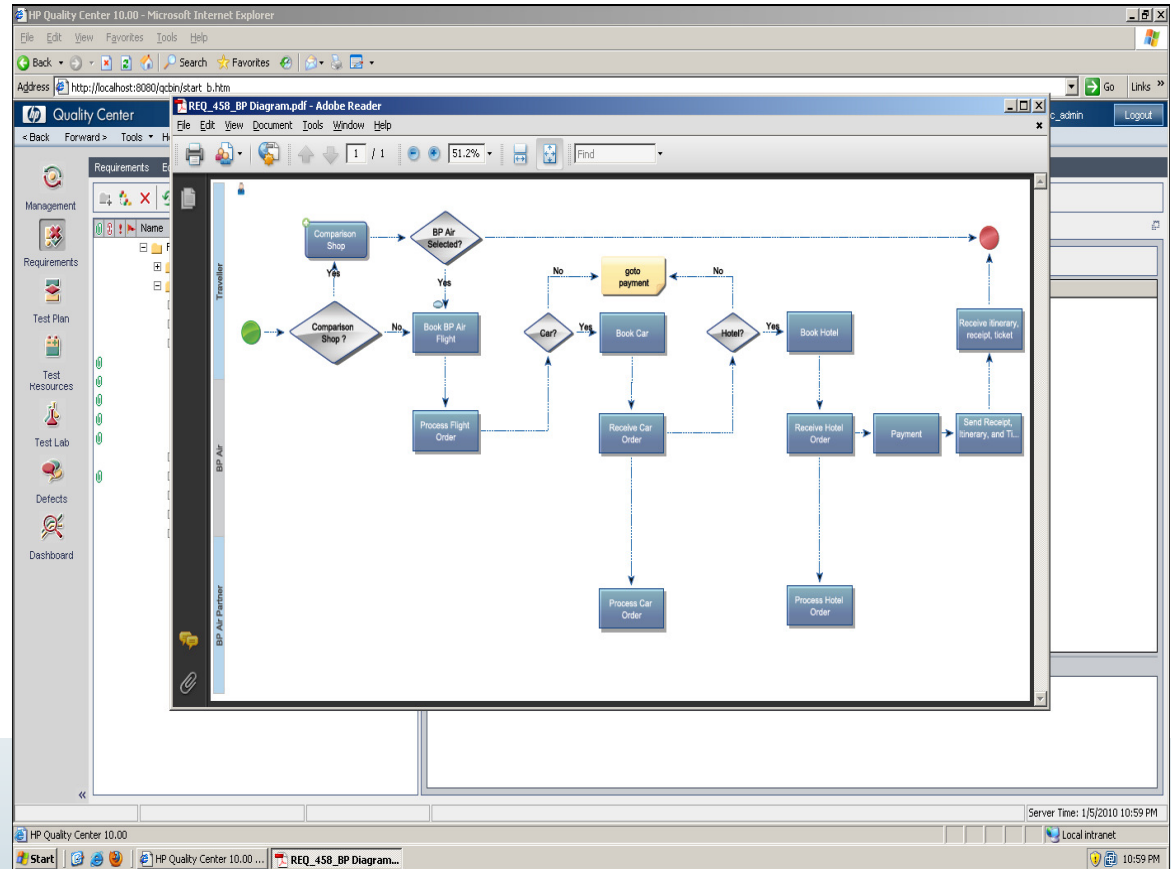
Application Requirements

Generated Tests

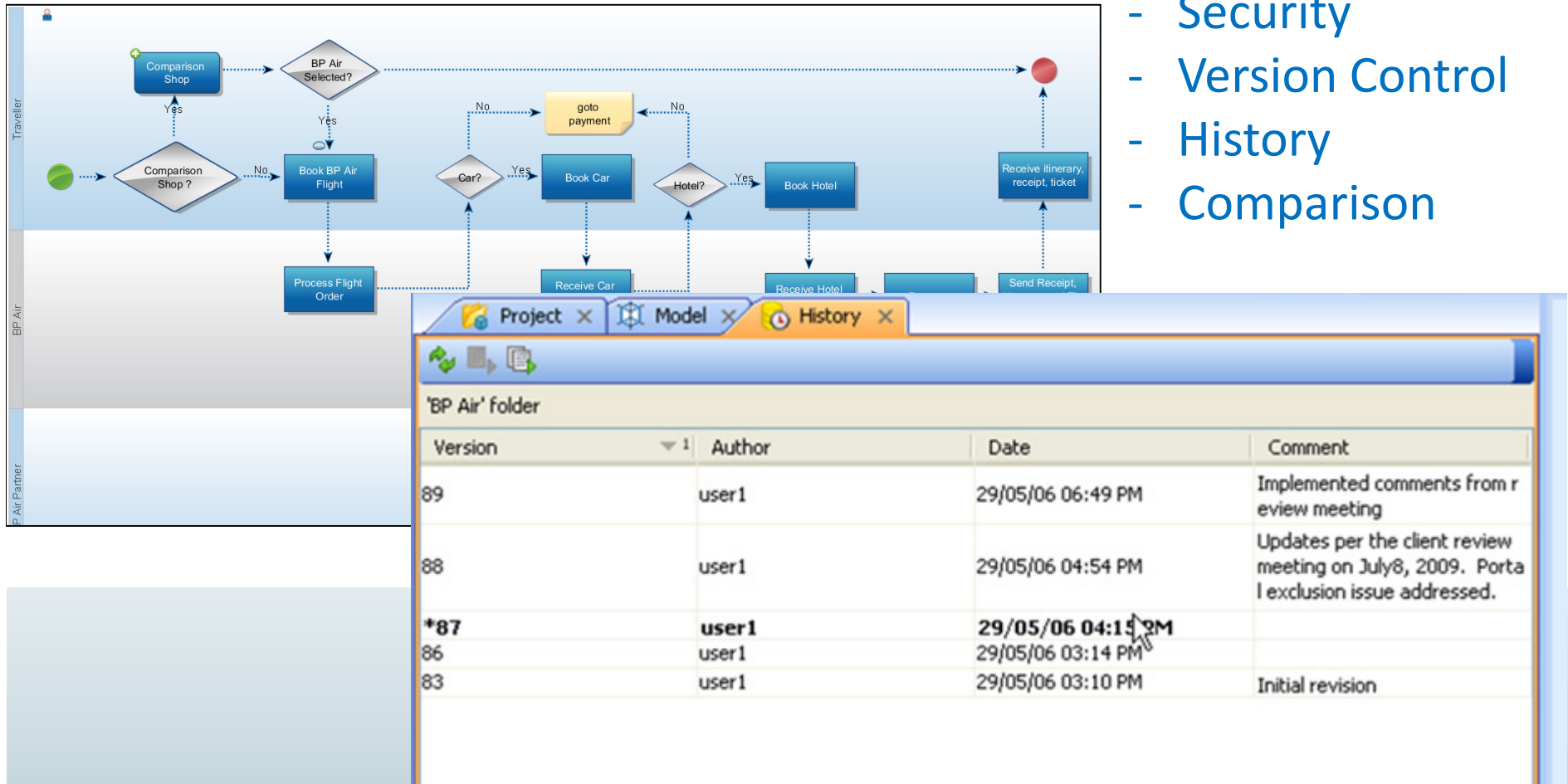


HP Quality Center

Completely Traced
Business Process,
Requirements & Tests.



- Multi-User Access
- Security
- Version Control
- History
- Comparison

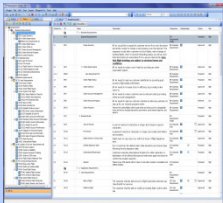




Blueprint - Single Version of the Truth

1. AUTHOR

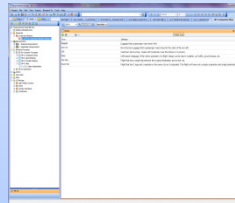
Requirements
Lists Editor



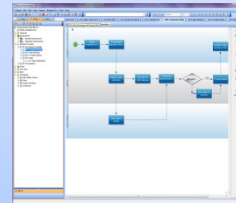
UI Mockup
Editor



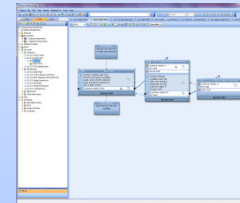
Business Process
Diagram Editor



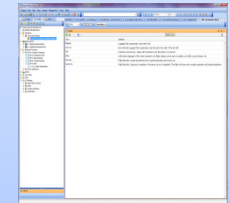
Use Case
Editor



Data and Rules
Editor



Glossaries



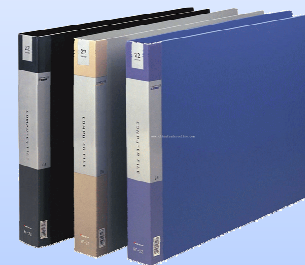
Blueprint
Integrated Model

2. VALIDATE



- Simulate All Requirements (UI, process, data)
- Capture Feedback into System
- Track and Incorporate Changes

3. COMMUNICATE



- Auto-generate Microsoft Office Documents
- Generate 100% of Functional Test Scenarios
- Integrated with ALM Solutions

- Blueprint
 - Requirements Center: most comprehensive RDM platform
 - www.blueprintsys.com/products
 - IIBA Certified RDM Courses
 - www.blueprintsys.com/services
- How Requirements Center supports BABOK
 - www.blueprintsys.com/iiba

Process Modeling with Enterprise Architect

Presenter: Tom O'Reilly
Chief Information Officer
Sparx Systems Pty Ltd



Sparx Systems - Enterprise Architect 9

Our Approach to Process Modeling

- We provide an integrated tool-set:
 - Easy to use
 - Based on industry accepted, open standards
 - Helps manage business complexity
 - Simulate and execute process flows
 - Team-based modeling for the entire project
 - Repository-based & highly scalable
 - Ability to reuse and template processes

Process Modeling

Flowchart

Rich, comprehensive tool-set

No restrictions on modeling methodology

As easy as drawing with a pen on paper or whiteboard

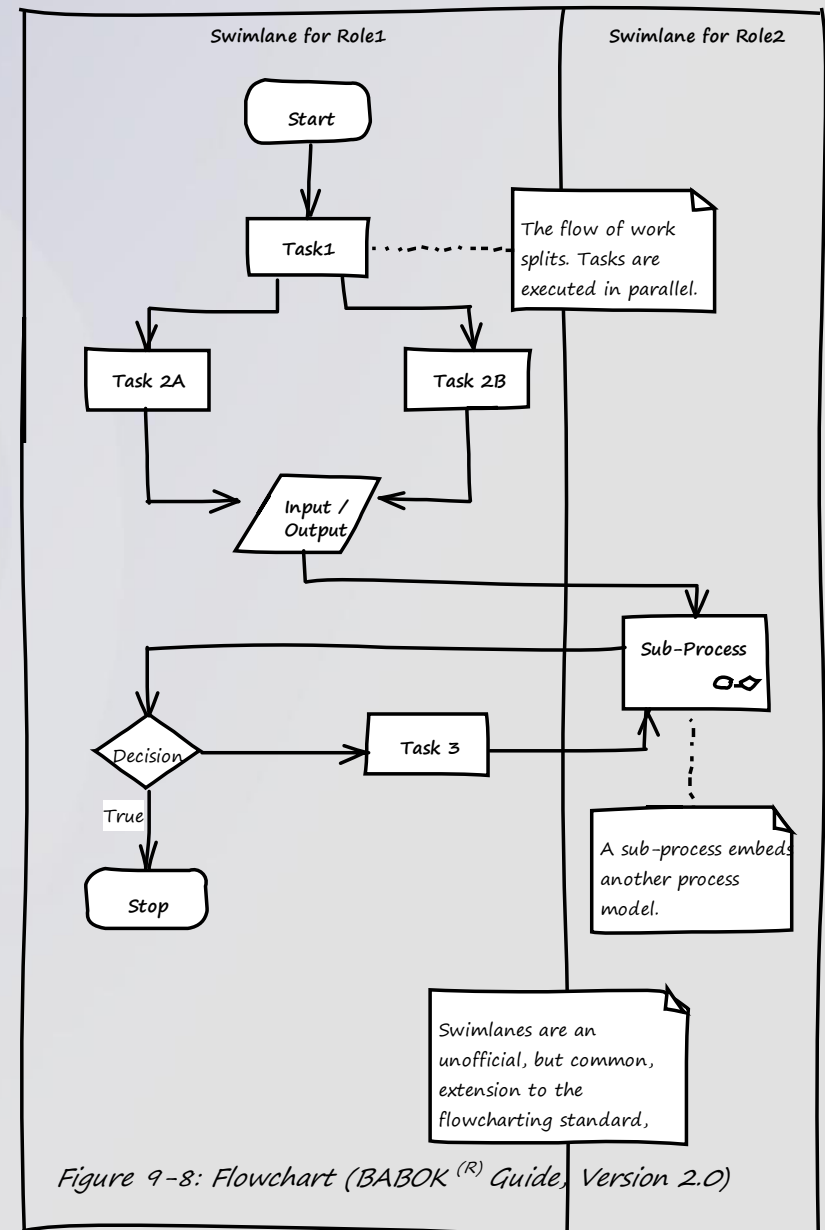


Figure 9-8: Flowchart (BABOK^(R) Guide, Version 2.0)

Process Modeling

Flowchart

Rich, comprehensive tool-set

No restrictions on modeling methodology

As easy as drawing with a pen on paper or whiteboard

Can also be converted quickly into usable formal diagrams

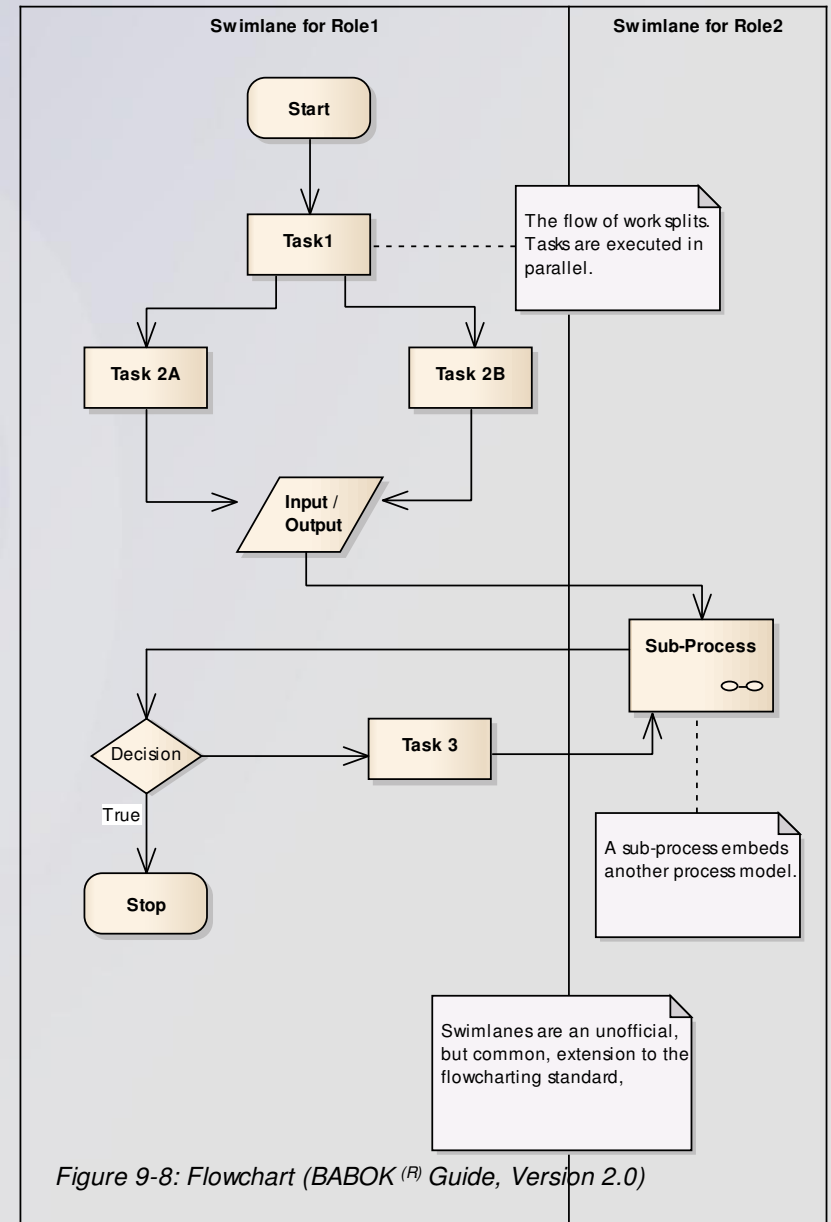


Figure 9-8: Flowchart (BABOK (R) Guide, Version 2.0)

Process Modeling

Notations

Flowcharts

UML Activity Diagrams

BPMN

Frameworks

Capability Maturity Model
Integration® (CMMI®)

Six Sigma

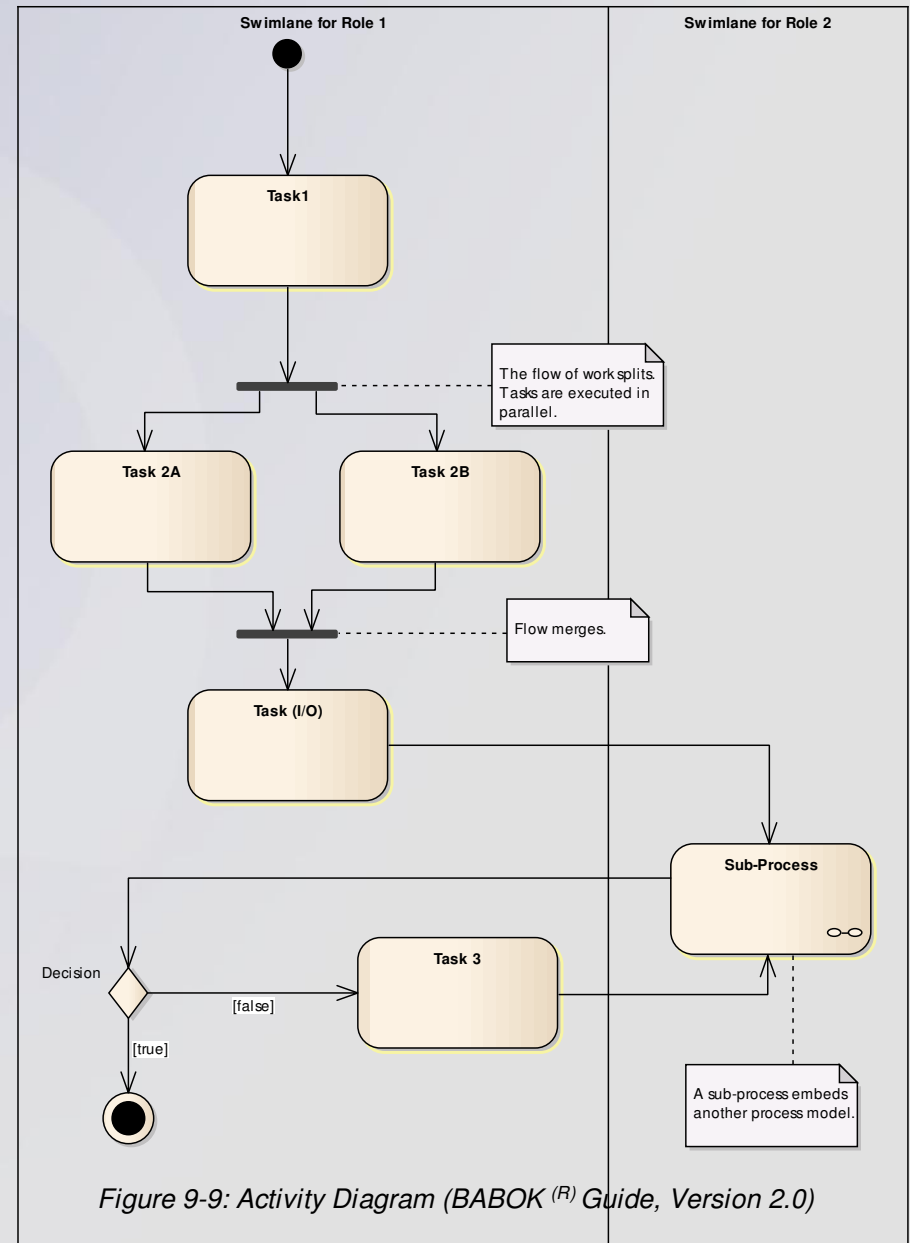


Figure 9-9: Activity Diagram (BABOK[®] Guide, Version 2.0)

Process Modeling

Notations

Flowcharts

UML Activity Diagrams

BPMN

Frameworks

Capability Maturity Model
Integration® (CMMI®)

Six Sigma

Activity : Task1

Properties

- General
- Behavior
- Parameters
- Advanced
- Tagged Values

Rules

- Requirements
- Constraints
- Scenarios

Related

- Files
- Links

Name: Task1

Stereotype: Activity

Alias:

Keywords:

Author: torelli

Language: Java

Status: Proposed

Complexity: Easy

Version: 1.0

Phase: 1.0

Notes:

The first task to be undertaken in this process. This task will lead on to two others that will need to be done before the flow will merge again.

OK Cancel Apply Help

Process Modeling – Full Element Coverage

Elements

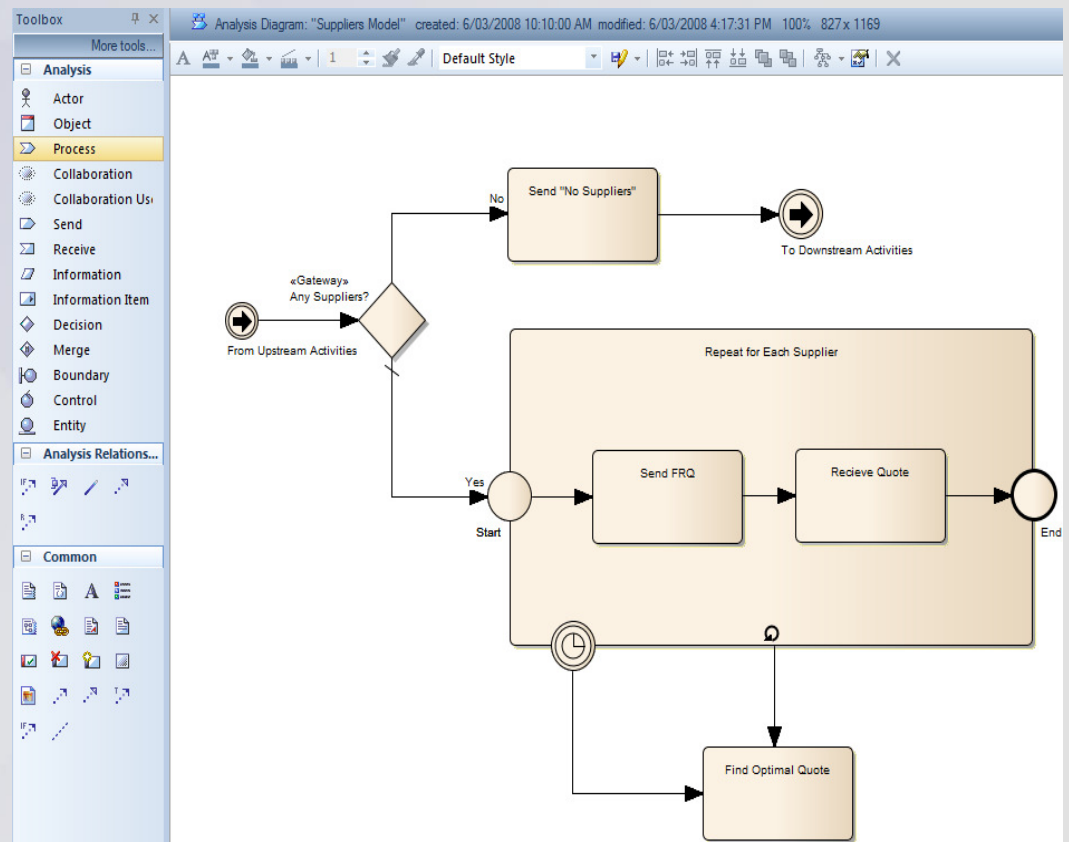
Many elements available

Drag and drop approach

Context sensitive Toolbox

Quick-linker

Tagged Values



Process Modeling – More Detail

Elements

Many elements available

Drag and drop approach

Context sensitive Toolbox

Quick-linker

Tagged Values

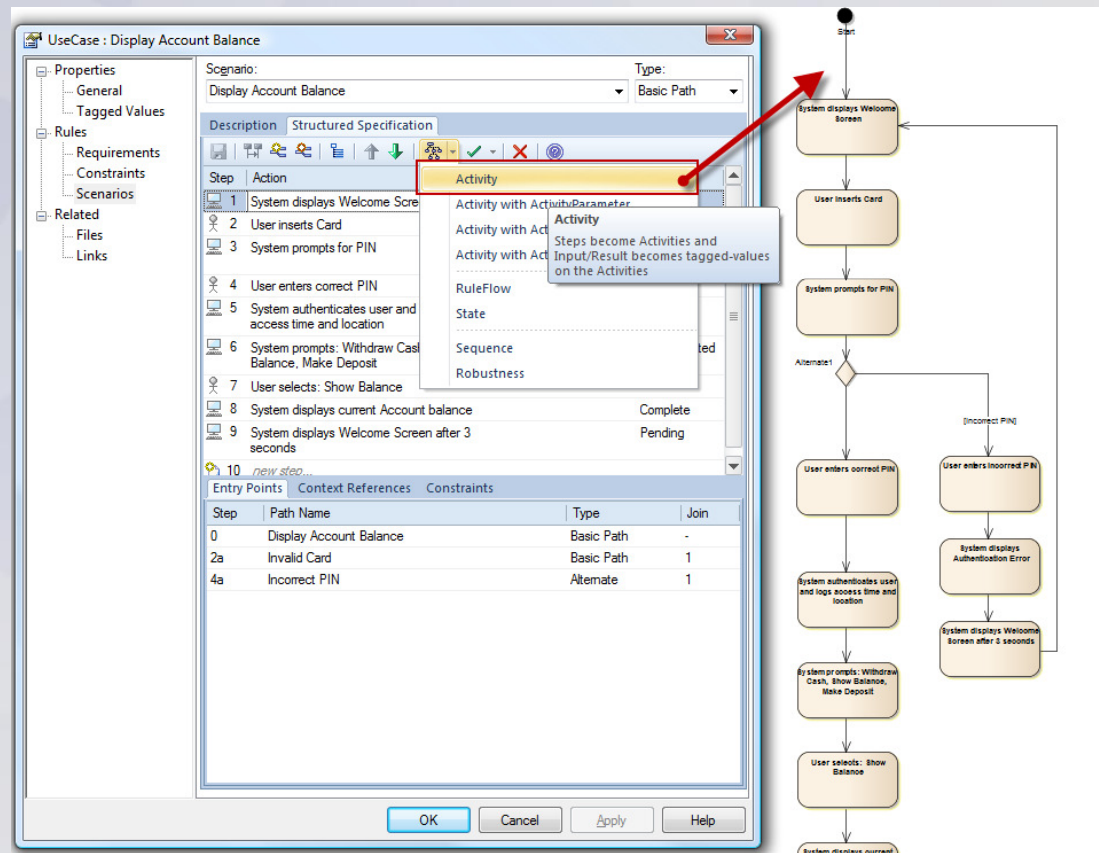
The screenshot shows a 'Tagged Values' dialog box for an 'Activity (Recieve Quote)'. The dialog contains a table with various properties and their values. The properties are listed on the left, and the values are on the right. The values are: ActivityType: Task, AdHoc: false, AdHocCompletionC...: false, AdHocOrdering: Parallel, Assignments: , Categories: , ComplexMI_FlowCo...: , DiagramRef: , Implementation: Web Service, InputPropertyMaps: , Inputs: , Instantiate: false, IORules: , IsATransaction: false, IsCompensation: false, IsMultipleInstance: false, Lanes: , LoopCondition: , LoopCounter: , LoopMaximum: , LoopType: None, MI_Condition: , MI_FlowCondition: All, MI_Ordering: Sequential, OutputPropertyMaps: , Outputs: , Performers: , Pool: , ProcessRef: , Properties: , Script: , StartQuantity: 1, Status: None, SubProcessRef: , SubProcessType: Embedded, TaskRef: , TaskType: None, Test Time: After, Transaction: .

Property	Value
ActivityType	Task
AdHoc	false
AdHocCompletionC...	false
AdHocOrdering	Parallel
Assignments	
Categories	
ComplexMI_FlowCo...	
DiagramRef	
Implementation	Web Service
InputPropertyMaps	
Inputs	
Instantiate	false
IORules	
IsATransaction	false
IsCompensation	false
IsMultipleInstance	false
Lanes	
LoopCondition	
LoopCounter	
LoopMaximum	
LoopType	None
MI_Condition	
MI_FlowCondition	All
MI_Ordering	Sequential
OutputPropertyMaps	
Outputs	
Performers	
Pool	
ProcessRef	
Properties	
Script	
StartQuantity	1
Status	None
SubProcessRef	
SubProcessType	Embedded
TaskRef	
TaskType	None
Test Time	After
Transaction	

Enterprise Architect – Ease of Use

Helping to describe and visualize a process

Automatic generation from use cases to process diagrams

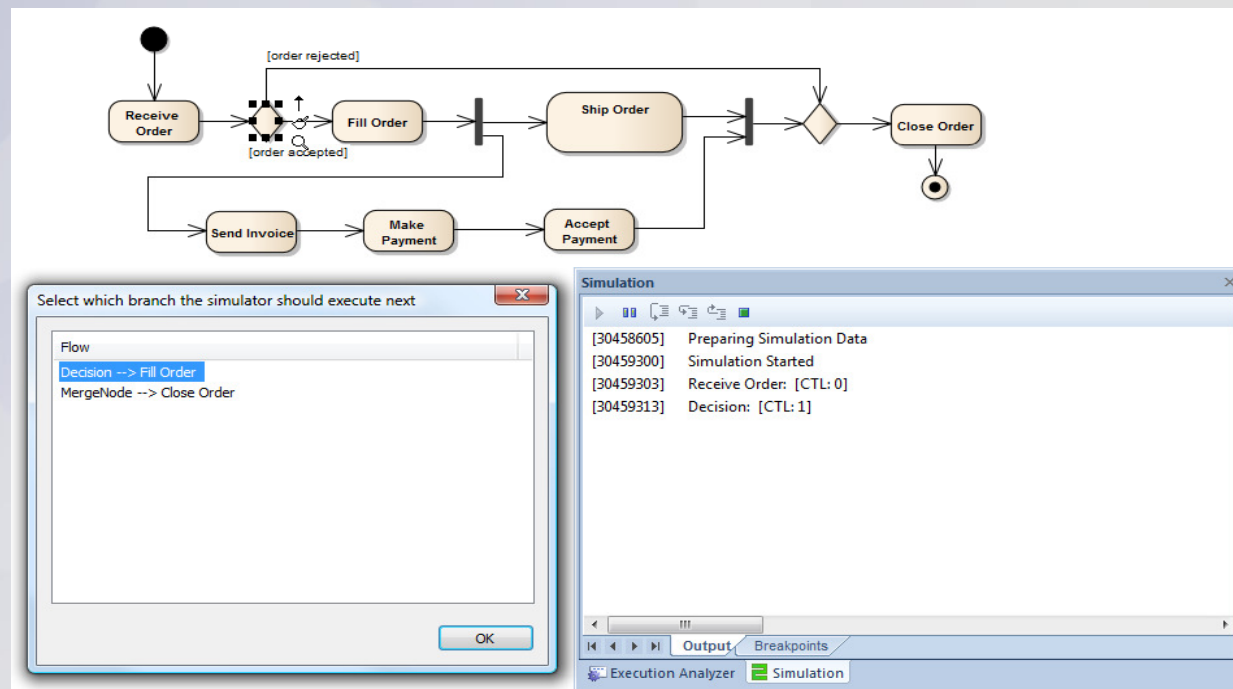


Enterprise Architect – Managing Complexity

Process Simulation

Manage complexity by simulating process diagrams

For larger diagrams breakpoints can be used

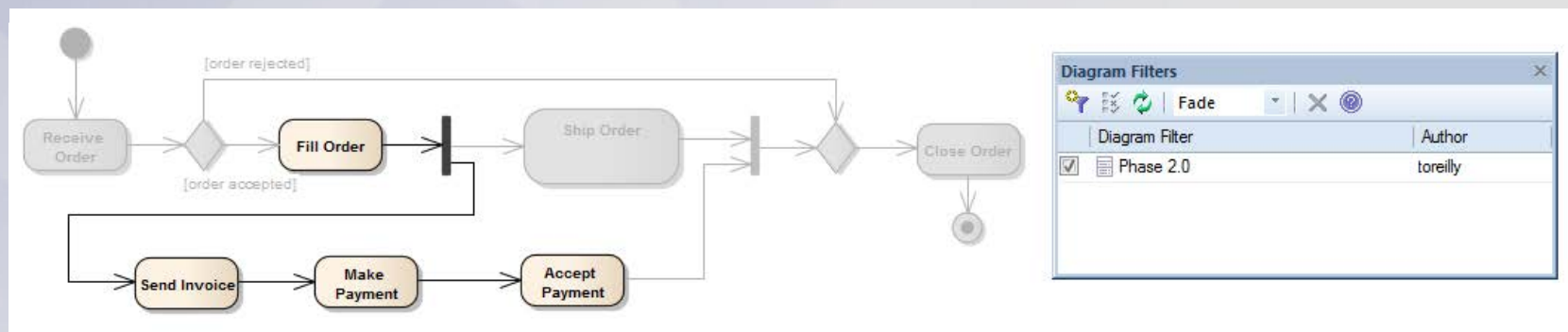


Enterprise Architect – Managing Complexity

Diagram Filters

Diagram Filters used to highlight relevant areas of the process model dependent on their attributes

Great for phase and versioning, also identification of high priority processes



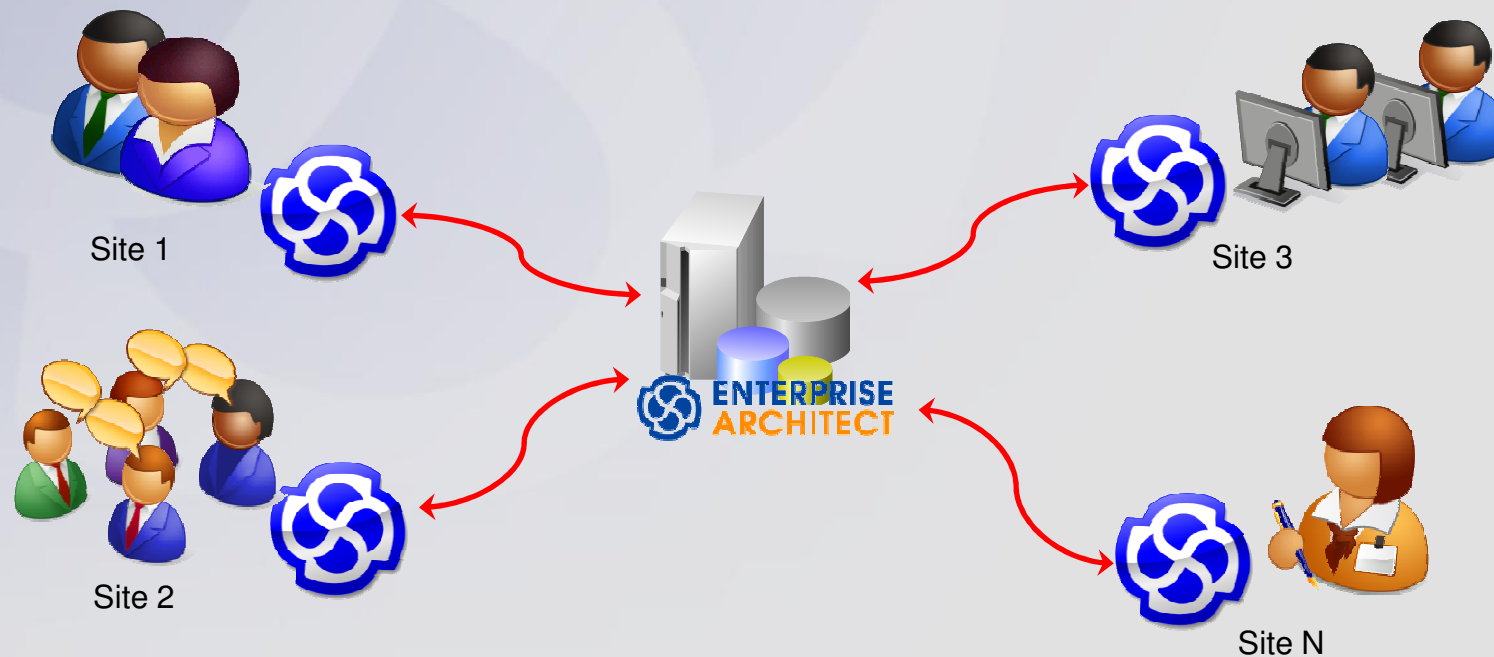
Enterprise Architect

Team Based:

Designed to be multi-user

Highly Scalable repository based modeling

Share: HTML, RTF, Enterprise Architect Lite, XML



Enterprise Architect - Reuse

Once a process has been optimized

Save commonly used patterns accessible from the Toolbox

Core process can be dragged and dropped from the Project Browser

Update once available everywhere

Sparx Systems – About Us

Sparx Systems in Brief

Enterprise Architect was commercially released in August 2000

Over 250,000 licenses sold to date

Over 60% of the top 100 global firms have volume licenses

An Australian company based in Creswick, Victoria

Enterprise Architect was one of the first tools to introduce comprehensive UML 2 support in April 2004

Deployed in industries ranging from aerospace and automotive engineering to finance, defense, government, entertainment and telecommunication



Thank You