

# PV207 Advanced Bizagi Topics

- Lukáš Smiga, 39236, lukas.smiga@gmail.com
- Advanced topics in Bizagi Suite
  - Data Model
  - Events Configuration
  - Forms Actions & Validations
  - Team Collaboration Options
- <http://help.bizagi.com/bpmsuite/en/>

# Data Model

- The process data model stores present process instance state - *context* - in persistence layer (database)
- Intermediate user state (Save button) is stored in process *scope*
- Process *scope* is accesible only through XPath navigation capabilities, not using the stored database model

# Data Model

- Entity types:
  - **Master** entity – all processes and related entities, one for every process model, user defined and accessible
  - **Parameter** entity – predefined values collection like cities, departments, gender, user defined/populated
  - **System** entity – external entity representing accessible models from underlying system, accessible
  - **Application** entity – represents resulting application structure, (meta)data, not accessible



Wizard

Ver



Ejecutar

Proyecto



Buscar



Actualizar

Acciones



Procesos

Model your business processes



Entidades

Defina datos del proceso



Reglas de Negocio

Maneje sus reglas de negocio



Organización

Defina participantes



Sistemas

Conectar con sus sistemas



Análisis

Defina métricas



Portal de Trabajo

Establezca colores y logotipo



Seguridad

Configuración de seguridad



Programador

Ejecutar los trabajos fuera de línea

Entidades

Application

Master

Parameter

System

AREA

LANGUAGE

LOCATION

ORGANIZATION

ORGPOSITION

ROLE

SKILL

TIMEZONE

WFUSER

WORKINGTIMESHEMA

Application

Master

Parameter

System

# Data Model

- Entity relationships:
  - Related attribute
  - One-to-one relationship (basic)
  - One-to-many relationship (collection)
  - Many-to-many relationship (complex)
  
  - Parent-child relationship (Cascading combo input)
    - i.e. select country, then select city, district...

File

Home



Entity



Relationship



Entity

New

Add



Zoom In



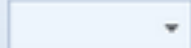
100%



Zoom Out



Fit Diagram



Pan



Show Grid



Master



Parametric



System

**Computer**

Attributes

abc Serial number

Relations

idEmployee

**Customer**

Attributes

abc Name

abc Social Security

123 Age

## Relationship Wizard

## Select Entities

- Welcome
- Select Entities
- Configure it

Entity

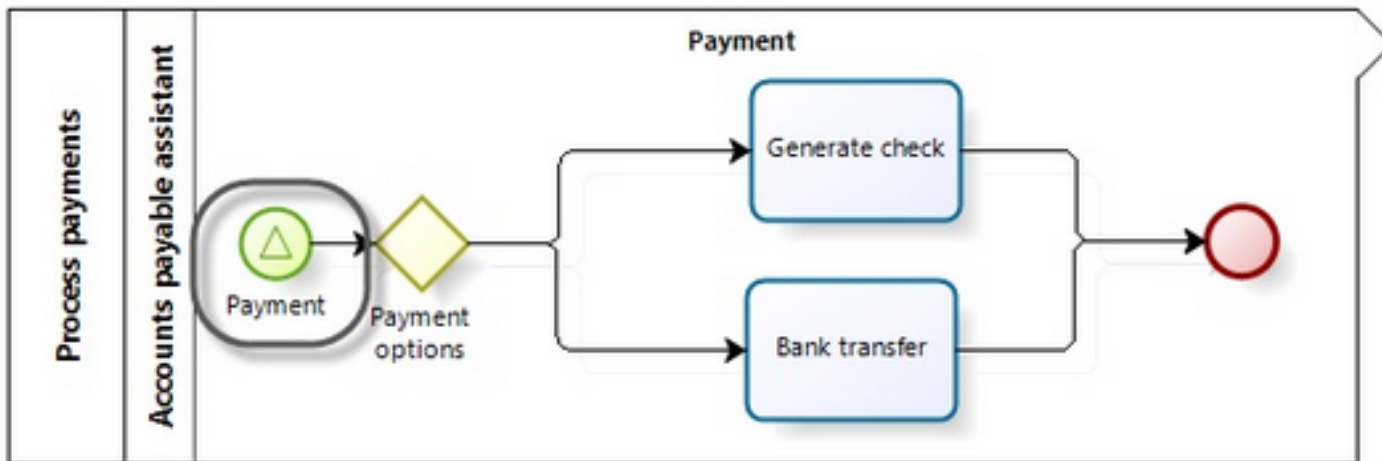
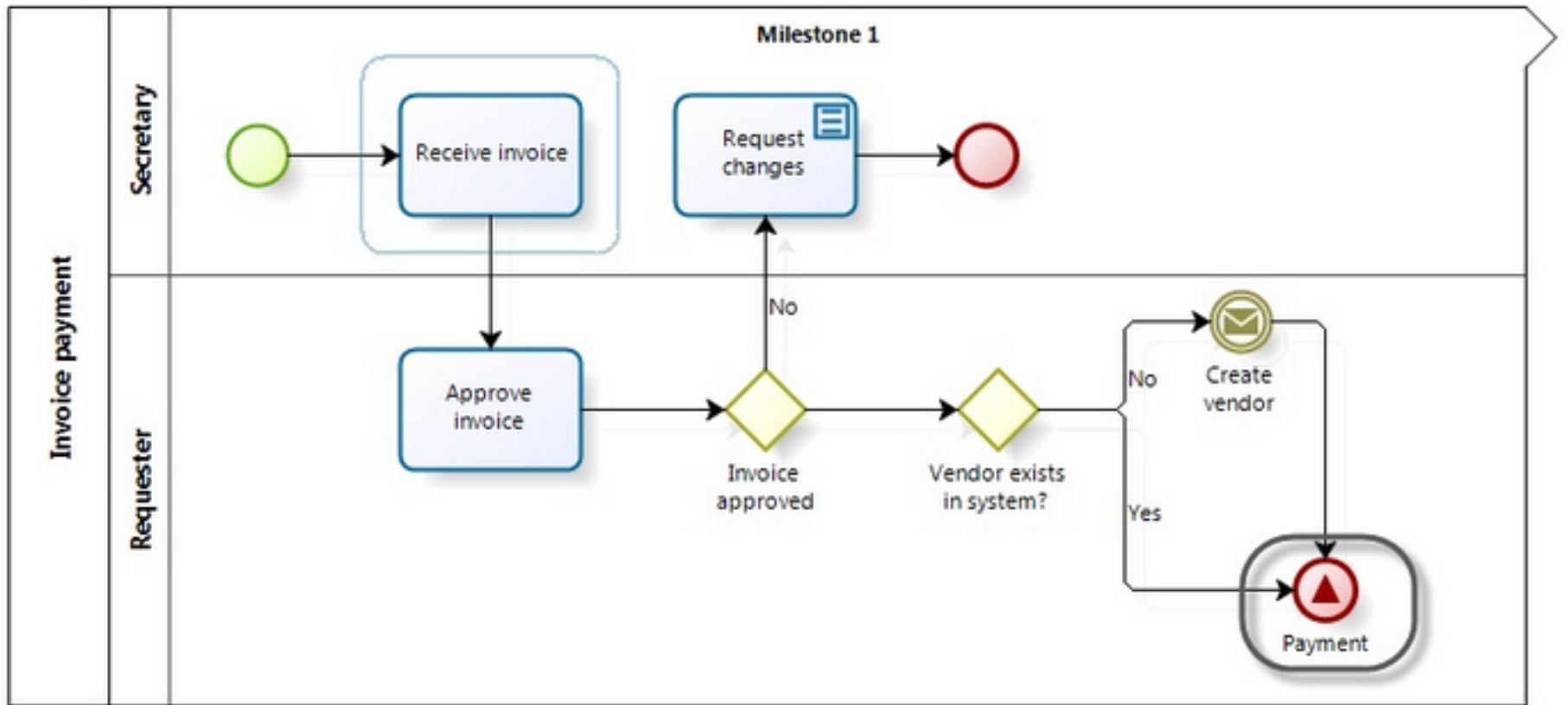
Customer

Entity

Computer

# Events Configuration

- Events:
  - events communicate with other events through message flows
  - they enable *collaboration* between process instances by passing message or signal
  - message passing mechanism is implemented using the *throw – catch* pattern (similar to publisher and subscriber)
  - addressing and messages are configured in *Collaboration* setup







## 6. Integrate

Next ▶



### Define Integration Interfaces (Optional)

Integrate Bizagi with the rest of your organization and ecosystem. Only necessary if you have interfaces.

[Learn More...](#)



### Collaboration (Optional)

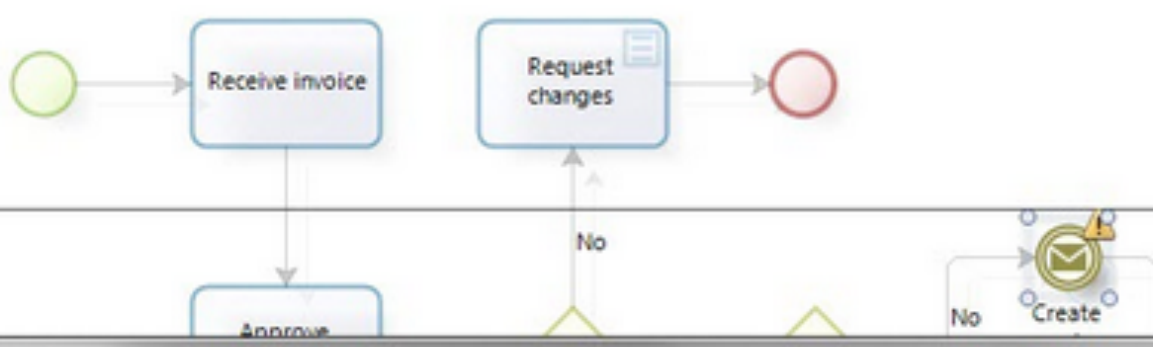
Implement message exchange between processes if necessary.

[Learn More...](#)

Invoice payment

Secretary

Milestone 1




### Configure Message

Process: Create vendor

Element: Create

XPath:



?? Back Next >> Finish

# Forms Actions & Validations

- **Actions & Validations:**
  - enable Bizagi user to set, manipulate or clear form controls (fields, buttons, tables...)
  - common uses:
    - validate end–user input
    - calculate or otherwise process control values
    - change controls behaviour (i.e. show/hide form control based on logic evaluation)
    - execute business rules (or expressions)

Undo Redo Save Copy from Form Copy format Properties

Warnings Form Buttons Show

Convert To Delete Rename Controls

Visible Editable Required

Default Languages

Data Controls Layout

- Purchases
  - PurchaseRequest
    - Authority Level
    - City
    - Cost Center
    - Country
    - Delivery address
    - Number Of Quotations ...
    - Purchase justification
    - Purchase Observations
    - PurchaseCaseCreatorId
    - Request Date
    - Request State
    - Request State Observation
    - Requested by
    - Required delivery date
    - Requires Approval for Pr...
    - Total Cost
    - Total Cost Estimate
    - Use only selected quotat...
    - User Creator
    - Products Requested
    - Purchase Approval
    - Quotation
    - Reusable Forms

**Actions & Validations**

Requested Products

Products Requested

Description

Total Cost:

Requires Approval for Products/Services:

Delivery information

Nested Form: Delivery

Delivery address:

Required delivery date:

City:

Actions Validations Add

**When**  
Products Requested has a row deleted

**Then**  
execute rule Set Total Cost Estimate  
refresh Total Cost

**Else** do nothing

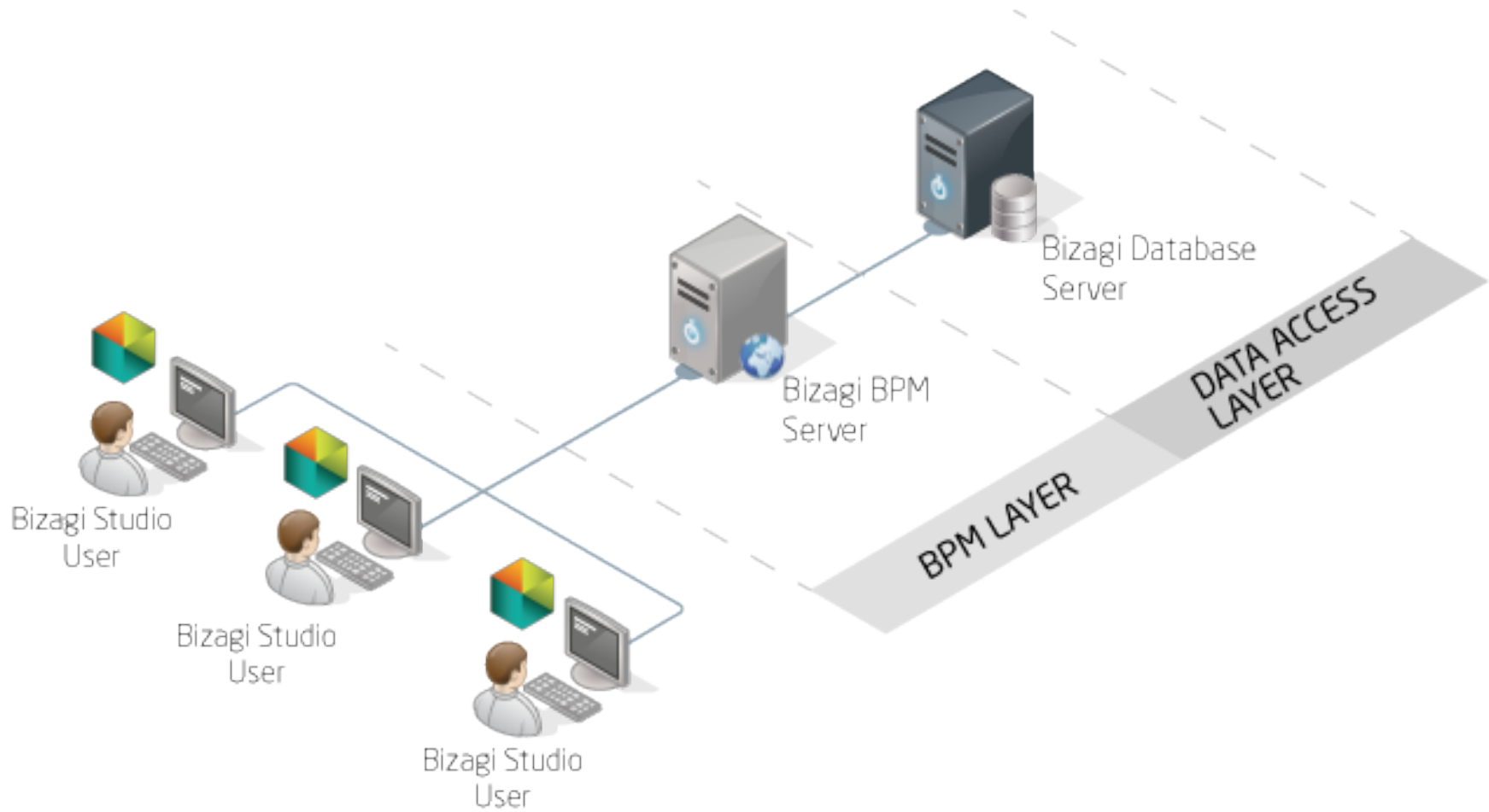
**When**  
Total Cost greater than 1000

**Then**  
set forecolor for Total Cost to red

**Else** perform the following actions  
set forecolor for Total Cost to green

# Team Collaboration Options

- Bizagi BPM Server collaboration
  - suitable for development environment
  - suitable for larger teams
  - supports object check-out and check-in
  - used for development and testing, not production
  - requires setup



# Team Collaboration Options

- SQL Database Backup
  - unmanaged option to backup, move or migrate existing project
  - external tools required for target database engine (i. e. MS SQL Server Management Studio – free)
  - complete application database dump into new existing project
- VM image migration
  - unmanaged option to share work, hard to synchronize
  - time, space and connection bandwidth intensive

Object Explorer

SQL2008R2 (SQL Server 10.50.2500 - sa)

- Databases
  - System Databases
  - CRM
  - External\_Accounts
  - HelpDeskWP
  - OfficeSupplyRequest
  - PersonalLoans
- Security
- Server Objects
- Replication
- Management

- New Database...
- New Query
- Script Database as ▶
- Tasks ▶
- Policies ▶
- Facets
- Start PowerShell
- Reports ▶
- Rename
- Delete
- Refresh
- Properties

- Detach...
- Take Offline
- Bring Online
- Shrink ▶
- Back Up...
- Restore ▶
- Generate Scripts...
- Extract Data-tier Application...
- Register as Data-tier Application...
- Import Data...
- Export Data...