

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



Ejecutar



Buscar



Actualizar

Ver

Proyecto

Acciones



Procesos

Model your business processes



Entidades

Define datos del proceso



Reglas de Negocio

Maneje sus reglas de negocio



Organización

Define participantes



Sistemas

Conectar con sus sistemas



Análisis

Define 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

Zoom

Show / Hide



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

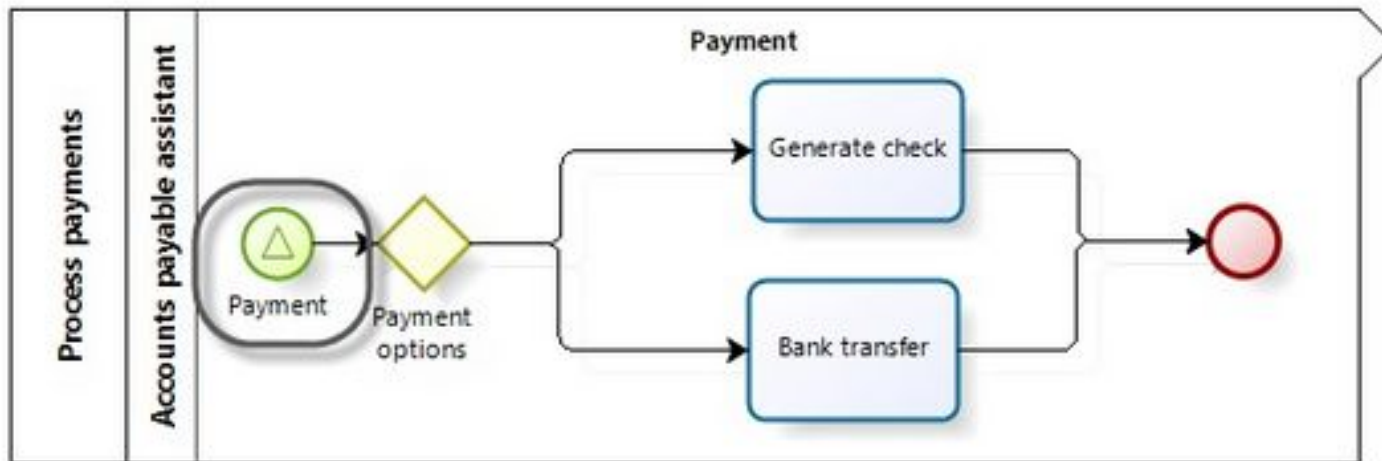
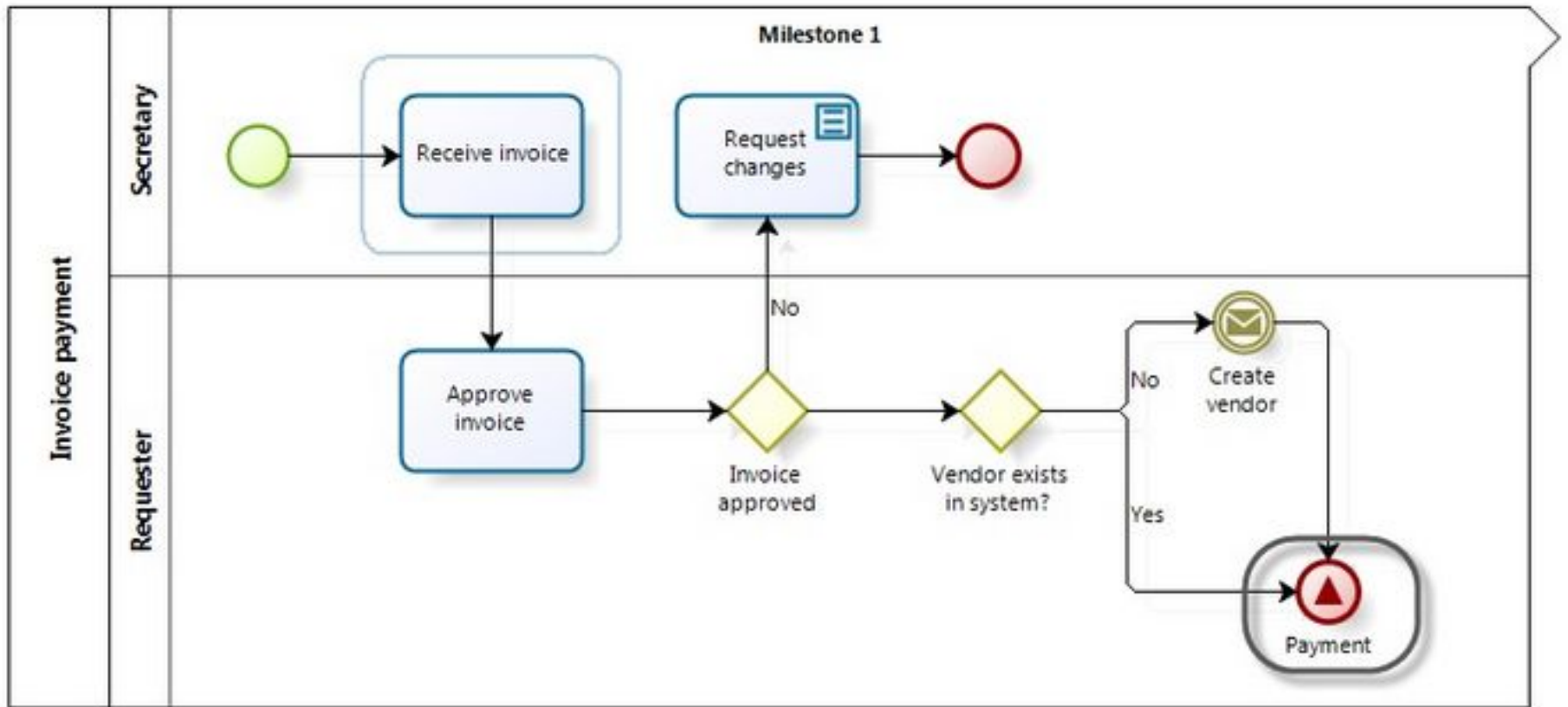
Customer

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.

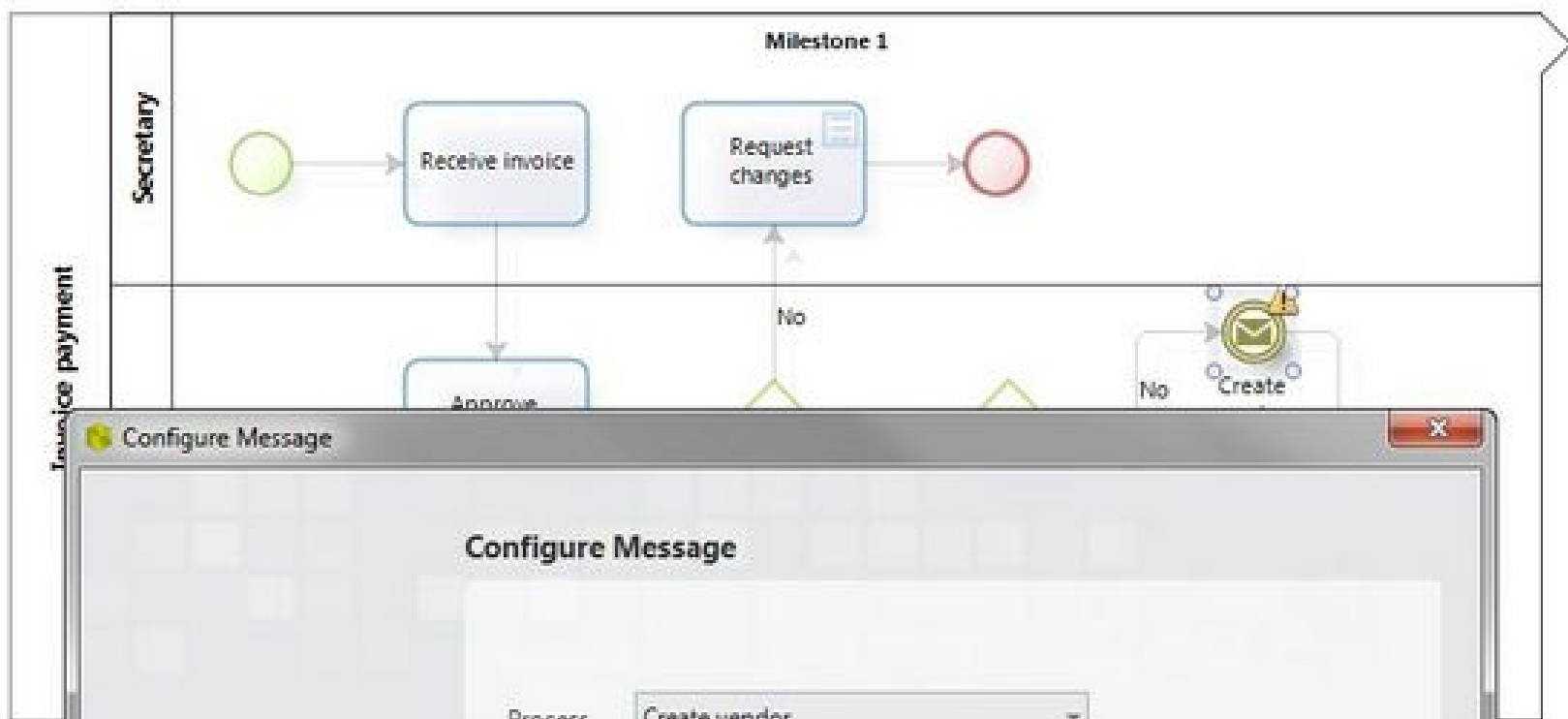
[Learn More...](#)



Collaboration (Optional)

Implement message exchange between processes if necessary.

[Learn More...](#)



Configure Message

Configure Message

Process: Create vendor

Element: Create

XPath:

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 Languages

Default

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

Requested Products

Products Requested

Description

Total Cost:

Requires Approval for Products/Services:

Delivery information

Nexted form: Delivery

Delivery address:

Required delivery date

City:

Actions & Validations

Actions Validations Add

When
Products Requested has a row deleted

Then
execute rule Set Total Cost Estimate
refresh Total Cost

Else do nothing

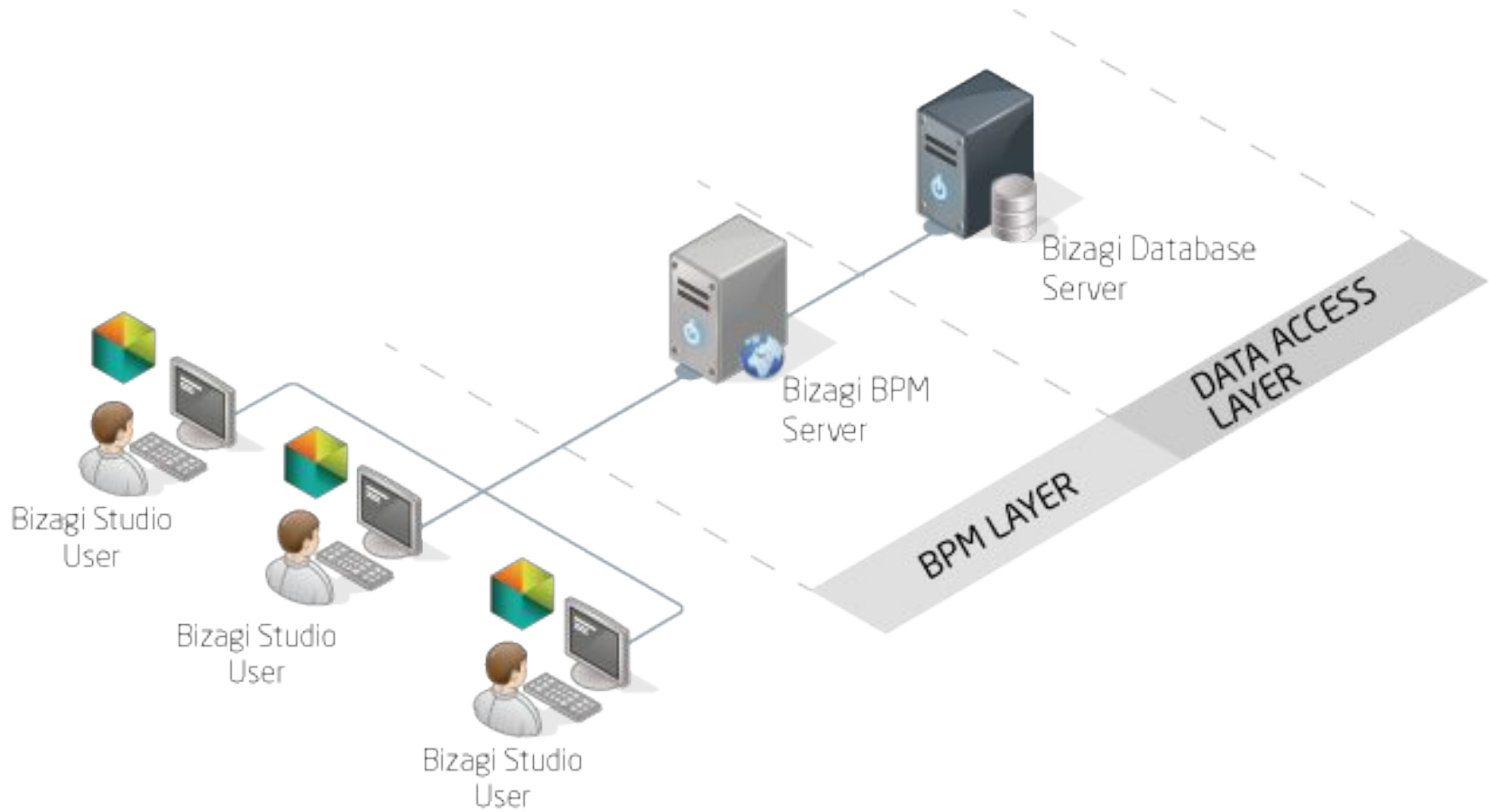
When
Total Cost greater than 1000

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)
 - <http://www.microsoft.com/en-us/download/details.aspx?id=22985>
 - complete application database dump into new existing project
 - http://help.bizagi.com/bpm-suite/en/index.html?when_using_sql_server.htm

Object Explorer

Connect

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...

Team Collaboration Options

- VM image migration
 - unmanaged option to share work, hard to synchronize
 - time, space and connection bandwidth intensive
- Workaround: Online sessions (skype)
- Alternative: Online shared Win machine

Other Issues

- SMTP setup for Bizagi environment
 - http://help.bizagi.com/bpm-suite/en/studio_environmentconf.htm
 - <https://www.pendriveapps.com/free-smtp-server-portable-smtp-server/>
 - <https://mailtrap.io>
- Web Services
 - <https://www.mockable.io>
 - <http://www.mocky.io>
 - <http://www.websvicex.net/WS/wscatlist.aspx>
- Data Service
 - Data replication and data virtualization in Bizagi
 - http://help.bizagi.com/bpm-suite/en/integrating_data.htm