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Introduction to Process Modeling and Execution	1

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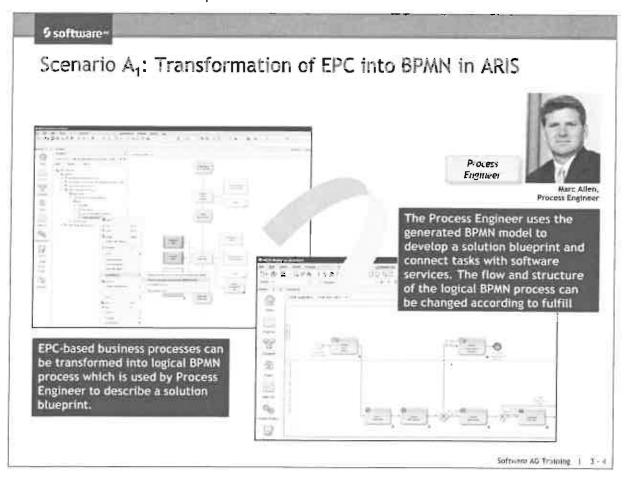
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Objectives

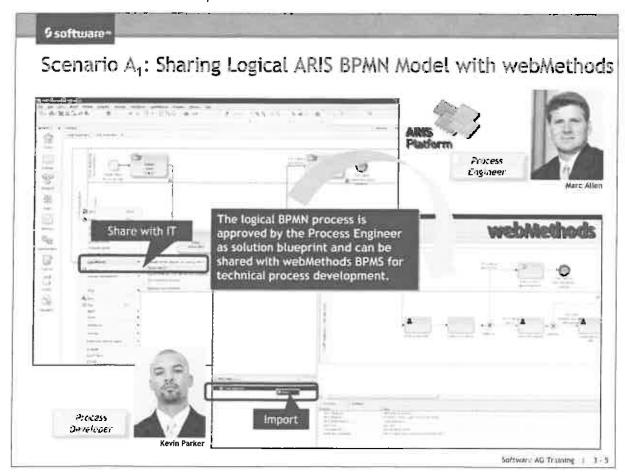
- At the end of this section, you will be able to
 - Create technical process models from scratch
 - Perform basic modeling
 - Build and upload your process models
 - Create process model reports
 - Print process models
 - Test your processes

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Process Development using webMethods BPMS
 Scenario A: Business Analysis and logical process design performed outside webMethods BPMS by using Scenario A₁: ARIS Import logical process model from ARIS into Designer and enhance it to a technical BPMN process model Smoothly coupled (Model-to-Execute) Round-tripping and versioning Scenario A₂: other BA tools than ARIS Import XPDL process model into Designer and enhance it to a technical BPMN process model
 Scenario β: Use webMethods BPMS for Business Analysis and technical process development/automation
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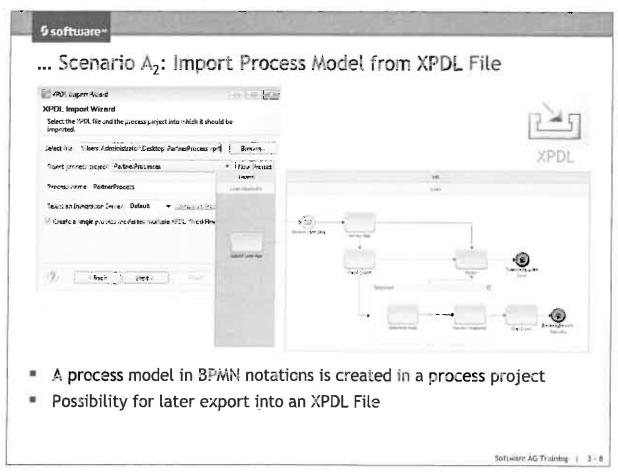
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Scenario A₁: Technical Enhancement of BPMN model in Designer Revin Parker Process Developer The Process Developer uses the imported BPMN Model and enhancements and process flow changes, like i.e. adding error steps, implementation properties, etc. Technical changes and enhancements can be later synchronized with ARIS (Round-tripping) Technical webMethods properties are preserved

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5 software" Scenario A2: Import Process Model from XPDL File... Designer is able to import/export process models provided in an XPDL file I laper XPDL is the most popular file format Select for Business Process Markup Notation Import a local 190L file into Designer as a process. (BPMN) process models Sulaci an inspect course Soft-rare AG BPEL File Enables interoperability with other Existing CAT Projects into Viculispace Modeler 6.: process models Business Analysis and Modeling tools Process File Rule Project files from My websitethe fu Server repositors like Simulation File **ProVision Business Process Analysis** (Metastorm) Process Modeler (ITpearls) WS Business Modeler (IBM) Visio (Microsoft) Software AG Training | 3 7

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Import Process Model - Remarks

Import from ARIS or XPDL File:





- Import asks for Integration Server to be used as target.
- Fitting IS docs can be generated on the fly and added to an Integration Server package
- Importing an XPDL file containing several workflows can result in generation of several process models or a merged process model
- Importing XPDL referencing Web services via WSDL, the import wizard will facilitate creation of corresponding Web Service Descriptor(s) and WS Connector(s) of type consumer in an IS
- Participant information in XPDL is imported into the process model as step level properties

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Scenario B: webMethods BPMS for Business Analysis and Technical Process Development/Automation

- If ARIS is available, it is recommended to use ARIS for Business Analysis and to design the logical process model. Share logical BMPN process model with webMethods BPMS. Use webMethods BPMS to perform technical process development and automation.
- If ARIS is not available, webMethods BPMS can also be used by a Business Analyst to perform logical modeling first, and then by a process developer to perform technical process development and automation.

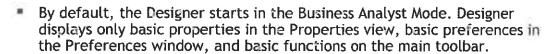


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Designer: Analyst Mode vs. Developer Mode

- Designer supports two modes in the Process Development perspective:
 - Business Analyst Mode:
 - Shows only basic properties, preferences, and functions
 - Is used primarily by non-Developers
 - Eliminates advanced properties, debugging and code generation
 - Process Developer Mode:
 - Shows advanced properties, preferences, and functions
 - Allows code generation
 - Allows debugging*



Business Analyst can use Designer in the Business Analyst Mode to model the initial logical process model in BPMN notation, then he/she may pass the project on to a technical process developer.

In this class we will learn how to perform technical process development and automation from scratch using webMethods BPMS only (without ARIS).

*For debugging of BPM, Software AG Designer offers another perspective.

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Create Process Model from Scratch - Top-down vs. Bottom-up

Top-down:
 Begin with model, assuming no knowledge of underlying systems or...



Bottom-up:
 Begin with underlying webMethods implementation,
 and reference it in Designer.



- At design time, bi-directional API allows:
 - 'Discovery' of underlying document types and operations in real-time, during configuration
 - 'Generation' of the implementation(s) from the business process definition created within Designer

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Designer Offline & Online Modes

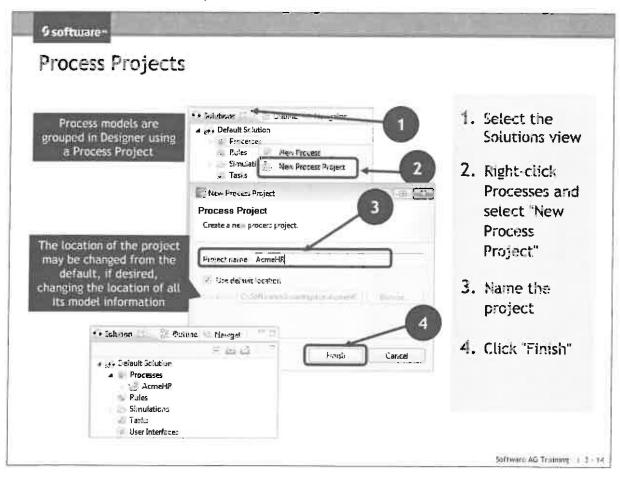
- Offline mode (default) = no connection required
 - Technical Process models can be created, but not built or debugged
 - Model can include:
 - All step types except catching Message/Signal Events and Receive Activities
 - Transitions
 - User Tasks can be created, but not deployed
- Online mode connection to severs established
 - Connection to an IS required for
 - debugging, build & upload of process models
 - viewing IS and reusing assets in the Package Navigator view
 - Connection to an MWS required for
 - deploying User Task projects
 - running User Tasks from Process Debugger
 - Connection to CentraSite required for
 - viewing and reusing shared metadata
 - performing asset dependency analysis

In this class, we shall be leveraging Online mode.

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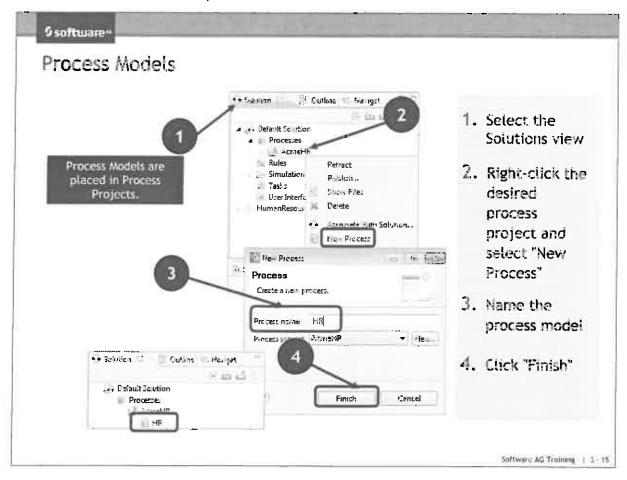
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webMethods 8.2 BPM for Developers



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S software* Design Canvas and Palette Palette is the Allebed Tact Service Task When the process file is first created, A Uner Fader the design canvas is blank e Pole Tasi Frent Task Til Receive Truk Palette offers icons representing BPMN 2.0 compliant go Subprocess modeling elements: (E) Call Actority Lien Activities Ofen (Tasks Activities of various types, Call Activities, Subprocesses) C insmedicte internetials filturage **Events** @ Intermediate Signal Gateways Chalemedia e Roundar, Succ @ Internehma Econology Times Pools and Annotations • 🕽 End Setans Palette: · Cor se · factors offers BPMN elements grouped in folders O 11.12 2 supports drag & drop as well as click & paste · Famile 5 cci can be hidden/shown Peste Software AG Training | 1 - 16

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Process Elements and Properties

- Each BPMN element on the canvas is configured by selecting the item on the canvas and then clicking on the Properties view
- Properties available to each element differ as appropriate for the element type
- All elements have a Label property which must be unique for all elements in the same process
- The process itself also has properties, which are accessed in the Properties view when clicking on a blank part of the canvas

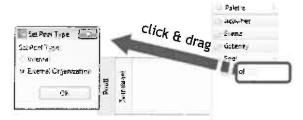


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Pools

Pools: Graphical representations on the canvas for internal and external organizations involved in the process



- Developers may use External Pools to model the activities of external actors/roles and their effects on the process
- Elements to be executed by the process model must exist in one Internal Pool.
- Orientation (vertical/horizontal) depends on Designer Preferences
- Pools are not mandatory, but are recommended

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6 software* Internal and External Pools Characteristics of Internal Pools: Represent your enterprise Each process model can only have one Internal Pool Filling color not hashed, orientation depends on Orientation property (Designer Preferences) Embedded elements must be associated with an integration Server Name Steps in an Internal Pool ultimately generate logic on the Integration Servers associated with the Integration Server Names Characteristics of External Pools: Represent entities such as partners sending data to/from your enterprise Added to a process model to make the model easier to understand External Pool steps do NOT have any runtime effect External Pool steps do NOT generate any code Filling color diagonal hashed, orientation depends on Orientation property (Designer Preferences) Softward AG Training | 3 - 19

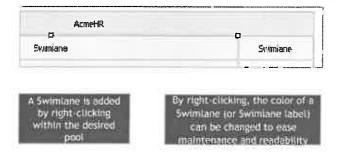
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Pools and Swimlanes

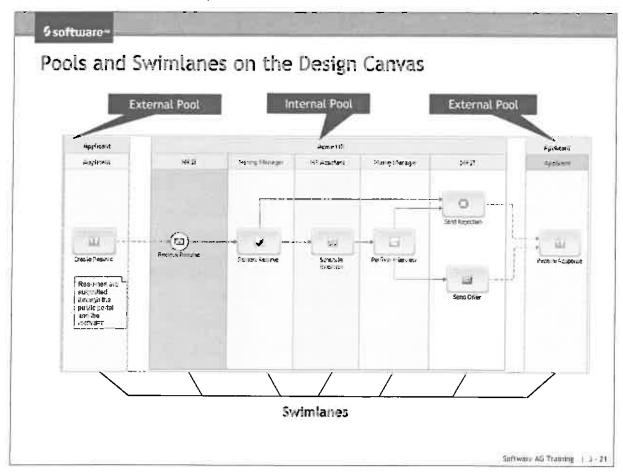
- Swimlanes provide a fine-grained representation of actors, roles or departments within a pool
- Swimlanes may be used to associate process steps with distinct groups or personnel within an organization
- BPMN Activities, Gateway or Events are placed in Pools and Swimlanes to communicate which actor or organization "owns" or performs those process steps
- Designer creates a default Swimlane for each pool
- Orientation of pools and swimlanes defined by Designer Preferences

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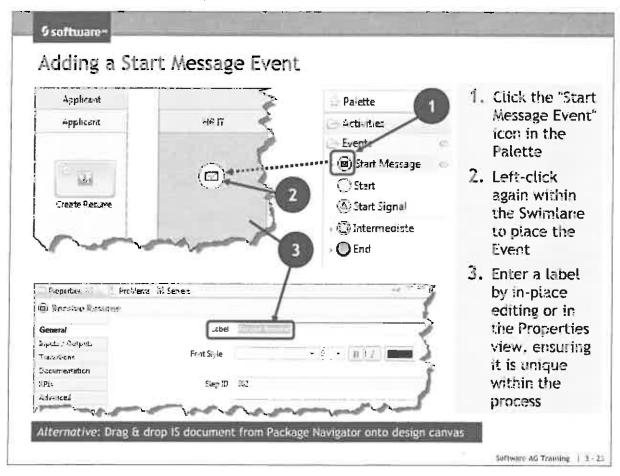
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webMethods 8.2 BPM for Developers 5 software Building a Process Model: Always Start with a Start Event A process must always start with a Start Event Events are represented by circles with/without an inner icon and solid (m) Start Message Event outer lines. webMethods BPMS additionally shows Start Events as green circles. Start Signal Event In this class we will concentrate on Start None Event Message and None Events. Start Events always start a new process instance*. Start Message Event at process runtime: Gets triggered by a published document instance or JMS message Creates a new process instance Initializes process pipeline with document data * A process can also be started by a Receive Task Activity (not recommended). Software AG Training + 1 - 22

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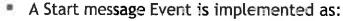
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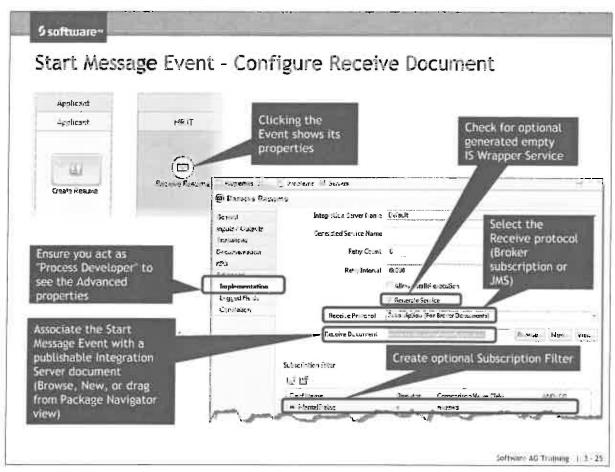
Configure a Start Message Event - Properties

- Use Properties view to configure Start Message Event.
- Start message Event can be triggered by:
 - IS document (using subscription to a Broker document)
 - JMS message (using JMS)

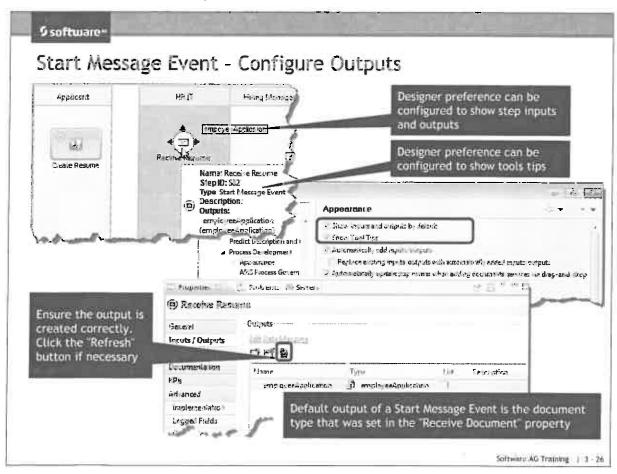


- An Integration Server trigger
- An optional Integration Server flow service
- The optional generated Integration Server flow service gives the process developer the ability to associate logic with the Start Event.

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Ssoftware* Task Activities A Task Activity describes and implements an automated or human-centric unit of work to be performed in a business process. Task Activities can be added to the process model in the design canvas and can be connected together. Task Activities are categorized by: what they do, as specified in their properties their function in the process Available types of BPMN Task Activities are: Activities are Rule Task Abstract Task represented by blue Send Task Service Task rectangles with rounded Receive Task User Task edges. Manual Task Software AG Training | 3 - 27

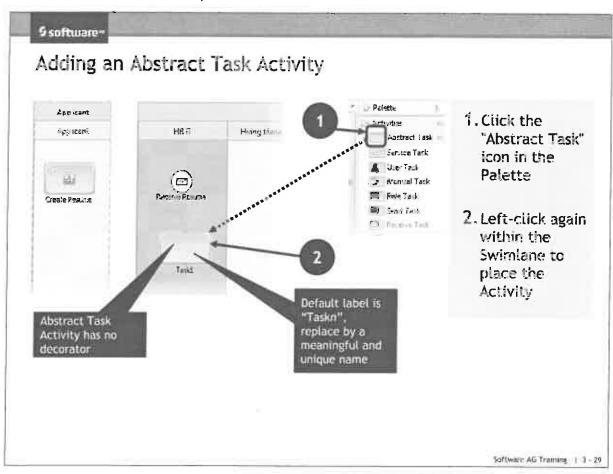
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9 software= Abstract Task Activity "Empty" activity Typically imported from logical process model Usage: Modeling an activity to be detailed later by changing its type from abstract to another type, e.g. service Making the model more clear or readable Defining steps inputs/outputs in advance Problems A Series 200 Undefined Tests Title Abstract General Imputs · Outputs integration Server Harrie Service Transmore

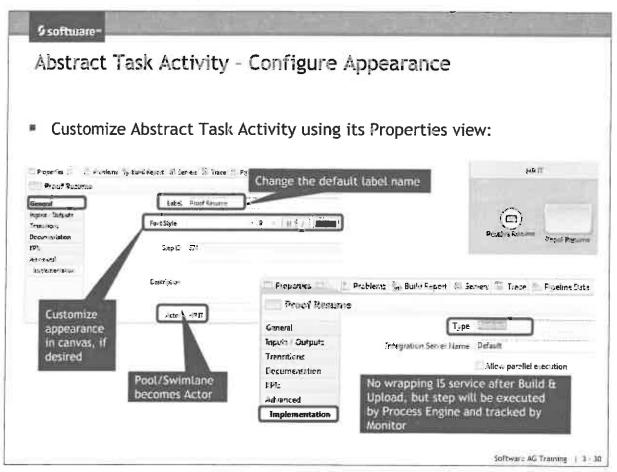
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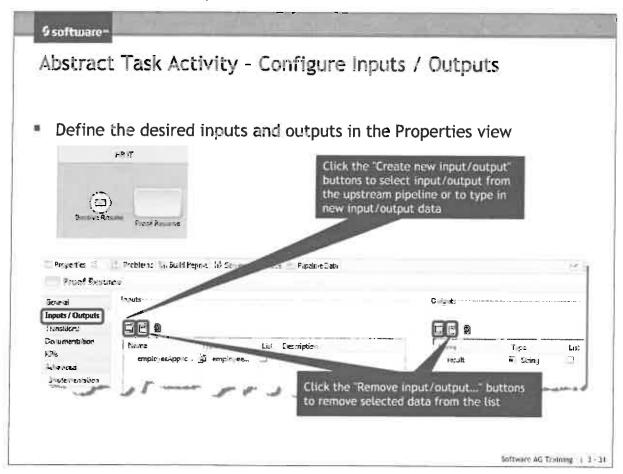
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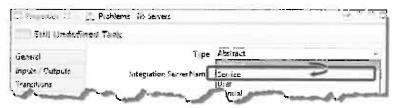
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Service Task Activity

Use a Service Task Activity to invoke business logic

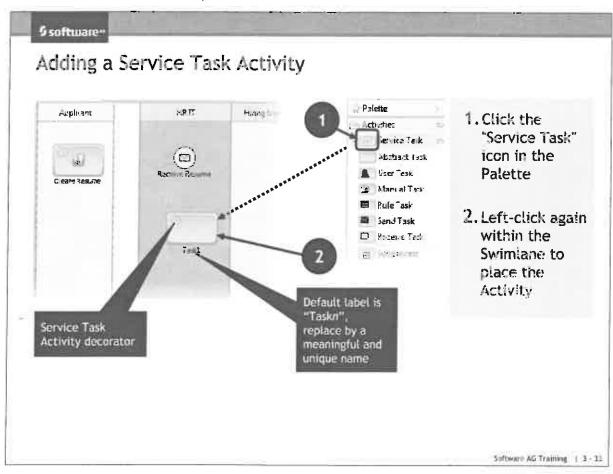


- A Service Task Activity can be configured to be one of the following types:
 - IS Service (Integration Server service)
 - Web Service (provided by an Integration Server Web Service connector acting as a Web Service Consumer)
- An existing or imported Abstract Task Activity could be easily changed/enhanced to be a Service Task Activity

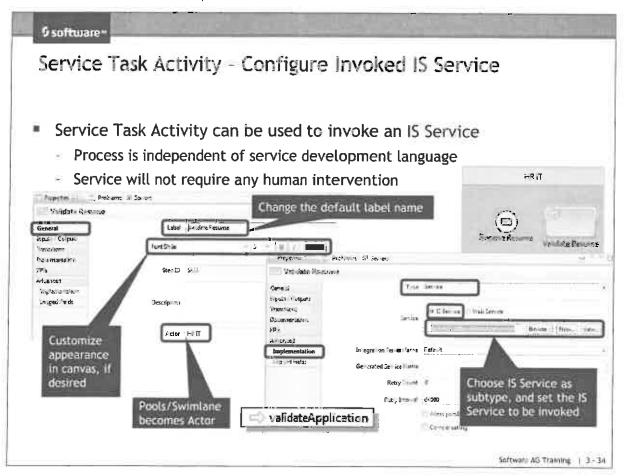


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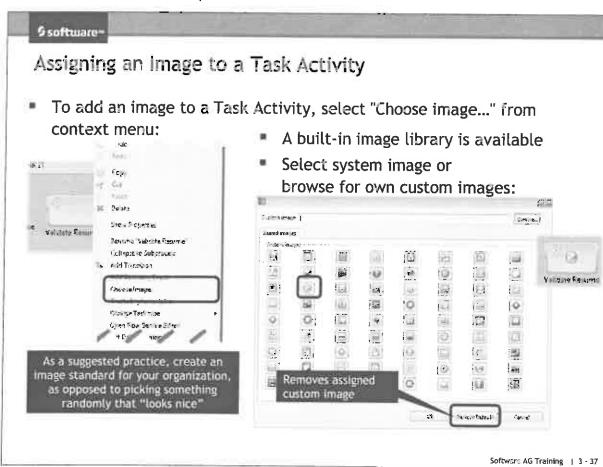
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Transitions... A process moves from one step to the next using a transition A process step may have multiple outgoing transitions A process step may have multiple incoming transitions Receive Resume Would over the source step and drag from one of the pop-up triangles to the target to add transitions A completed transition

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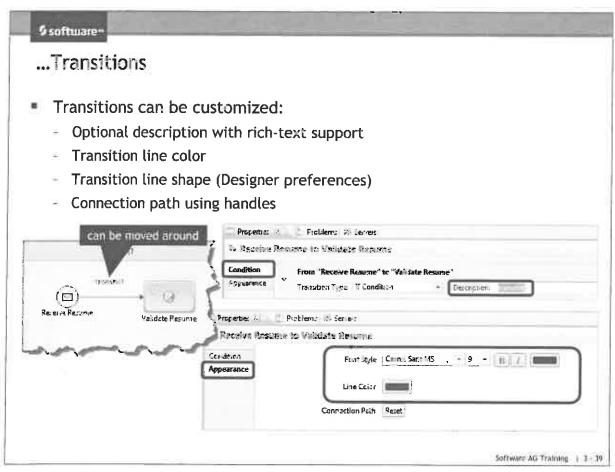
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9 software* OR: Service Task Activity - Configure Invoked Web Service Service Task Activity can alternatively invoke a Web Service Web Service must be assigned as an HEIT IS Web Service Connector (Consumer) Web Service will not require any human intervention Validate flassing I prite - Butya to Transitions. IS Service 3 1 Jeb Service acmethr. s...onsuna ?-lidateAgalicstion ? Connectors.consumeValidateAppication ?? Integration Server Name Default inger:Feld: Generated Service Name Choose IS Service as subtype, and set the Web Service Connector rl 60000 consume Validate Application W.5 to be invoked Alls a parallel execution Software AG Training | 3 - 35

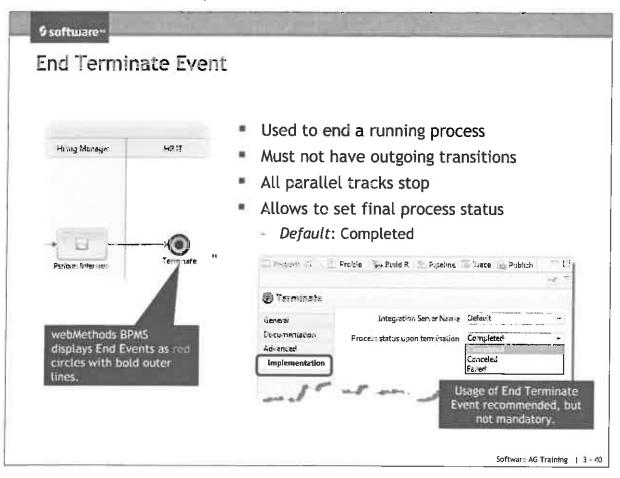
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9 software-Service Task Activity - Configure Inputs / Outputs Set the inputs and outputs in the Properties view - Tr Click the "Refresh" button above the Inputs and Outputs Valid Usine Properles 1 Combience : Semess To Tables Requests Inputs / Outputs G 🖺 🕭 日日日 Reasoner mich l'israe Description List Den , pion 7 75 emple eeApplication is emploised or lication к 🖭 д zaplication is complete with no errors ** 200 The inputs/outputs to the IS Service Tip: A Service Task can be easily configured or or Web service is automatically set created by dragging an IS Service or IS Web Service Connector (type Consumer) from the as the inputs/outputs to the step Package Navigator view onto the design canvas. Software AG Training | 3 - 36

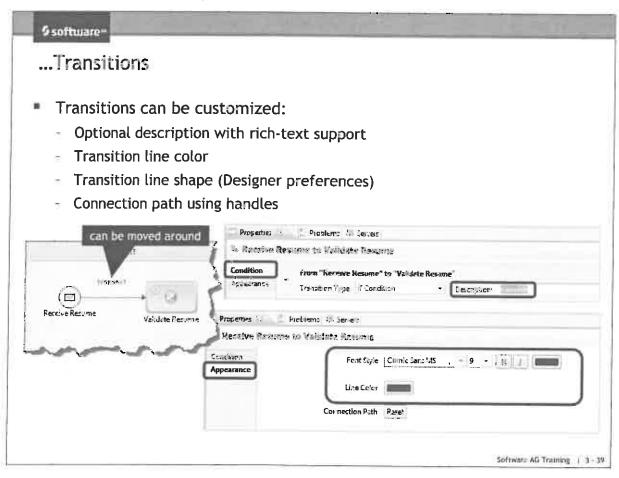
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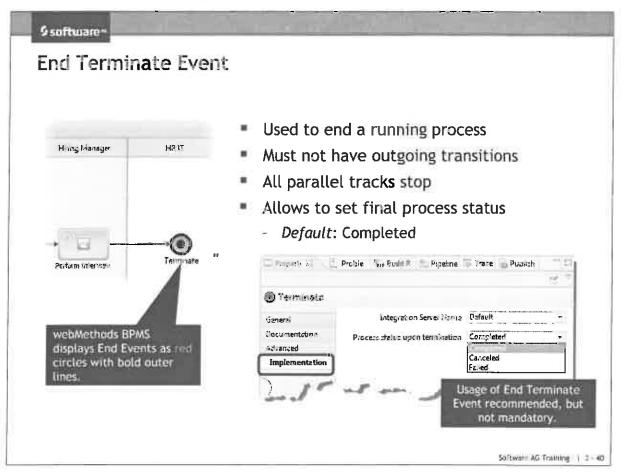
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Software: Annotations Annotations are BPMN-compliant elements used to add arbitrary descriptions to entire process canvas ದ ೧೯೭೬ ಕ್ಷಮಗಳ **Swimlanes** Applicant Palette Applicant HRIE -cti-itie; E.mits Cate-a-(L) Psci Recenie Recorne Anactation Validate Rezume Create Resure Can be moved Rich text support via Properties Mouse over the Annotation and drag from one of the Can be connected to Activities, Gateways, pop-up triangles to a step and Events for sticking Software AG Training | 3 - 41

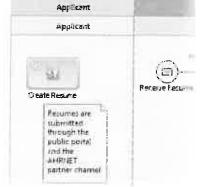
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Process Notes

- Process notes can also be used to place arbitrary descriptions on the process canvas
- Rich-text support
- Can be moved around, but not be connected to a step
- webMethods proprietary not BPMN standard
- Examples of usage:
 - Describe functional information about the business
 - Specify design instructions or context for process developers





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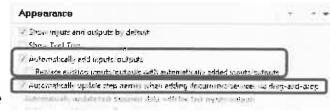
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Alternative Shortcuts for Process Development

- Integration Server documents can be drag-and-dropped from Package Navigator view configuring a Start Message Event
- Integration Server services can be drag-and-dropped from
 - Package Navigator view
 - Saved Searches view

to configure an Service Task Activity of type IS Service

- Designer preferences:
 - Selected service signature can be propagated to the process step
 - Step name can inherit name from dragged service



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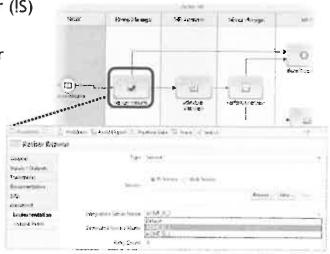
Integration Server and Integration Server Names

- Process model steps must be assigned to an integration Server Name
- Preconfigured "Default" Integration Server Name

 Each Integration Server name must be associated with a physical Integration Server (IS)

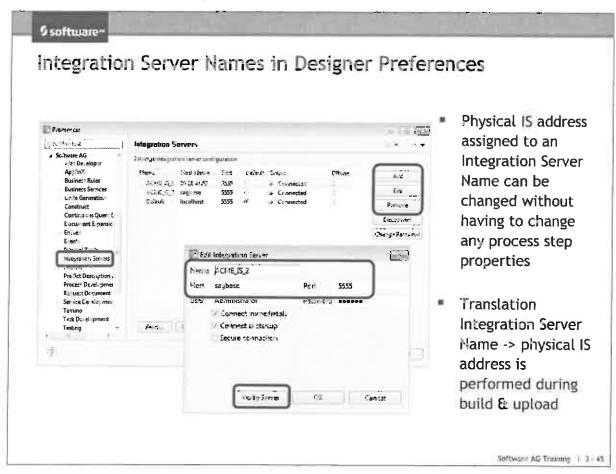
Integration Server names provide an abstraction layer between model steps and physical Integration Servers

Process Build and Upload creates step implementation on assigned physical Integration Server



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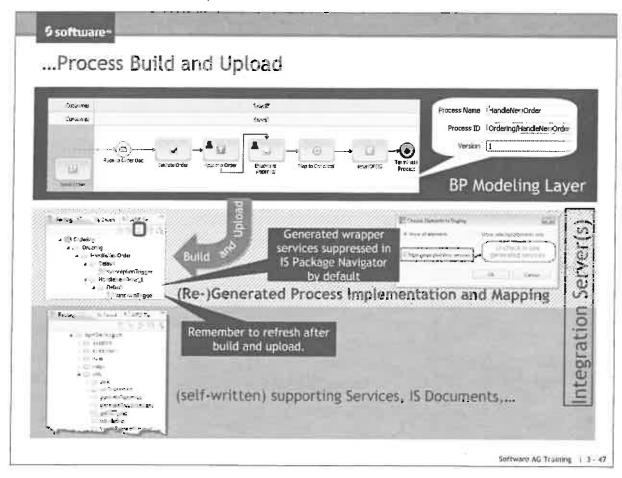
9 software-Process Build and Upload... Process model must be built and uploaded from Designer Building and uploading the process model generates Flow Services and Triggers on affected Integration Server(s) file Edit 'se- flavigate fearth Project thin Condo - Help 15 5 Process Development 🎋 Process Debugging 🦷 15 Development Temperior Problems Devel 4- four Papert © 18u3d of placess 18th stanted at Thu Lid 23 1648 31 CELT 2/11 ... Checking database for prior build and upload of process: "HR" ⊬ersion: "1" Testing Integration Ser er connection for the logical ser er "Default" Generating flow services for "HR"... ... Generating flow ser ices for "Neceive Resume"... Step ID: "519" Flow seró "AcmaHR.HR_1,Default:Receive_Resume" generated Step ID: "S19" Step Name: "Receive Resume" Generating flor ser ices for "Validate Resume"... Step ID: "569" iii Flow service "AcmeHR.HR.HR_1.Default: Validate_Resume" generated Step ID: "569" Step Name: "Validate Resume" Generating triggers for "HR"... Generating transition trigger for process "HR" logical Server "Default" Generating transition trigger for process "HR" logical Server "Default" ... Generating subscription trigger for process "HR" logical Server "Default" Generating process engine fragments for process "HR" 👼 Generating process engine fragment for logical server "Default" Saling process engine fragment for logical seriler "Default" Saling build information for process: "HR" | ersion: "1" to database... Build of process "HR" completed successfull, at Thu Jul 23 15.48:00 CCST 1811. Upload for a ecution of process "HR" completed successfull,.

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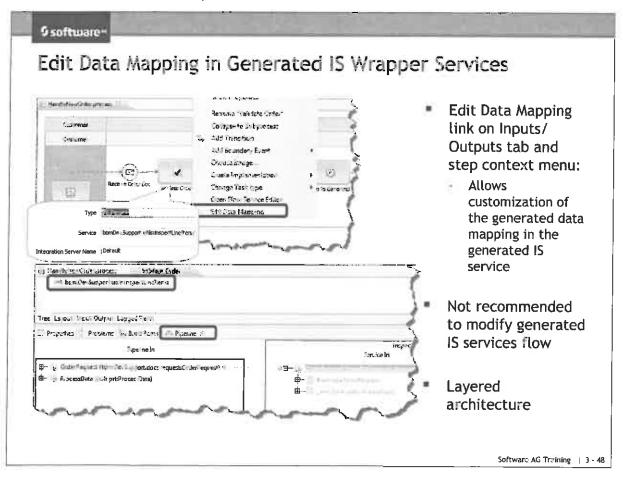
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Generated Integration Server Assets - Remarks

Building and uploading a process model:

- Generates Flow Services and Triggers in an IS package on affected Integration Server(s)
 - IS determined by Integration Server Name set at each step and Designer preference
 - Package located for each IS in:
 - $<\!web {\it MethodsInstallDir}\!\!>\!\! {\tt IntegrationServer} \\ {\tt packages}$
- Additionally places process information in the Audit database
- Generated IS Wrapping Services for Service Task Activities call the services configured in Designer
- Generated Trigger from a Start Message Event subscribes to the document type assigned in Designer (if Broker protocol selected)
- Start Message Event may have a generated IS Wrapping Service

■ Generate Ser.ice

- Service is empty if receiving an IS document
- Service contains mapping from a TN document to an IS document if receiving a TN document

If required, can be added to generated IS Wrapping Service

Software AG Trutming | 1 - 49

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Overview: Process Model Documentation

- In addition to Annotations and Notes drawn on the canvas, process and steps can have:
 - a description
 - associated documentation
- Designer can create a report including all descriptions and documentation

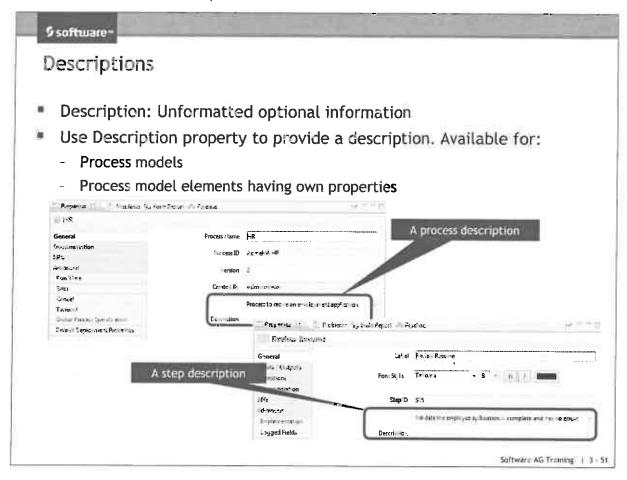
- Reports can be used for:
 - process reviews
 - ongoing maintenance cycles

Software AG Training | 3 - 50

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S software " **Documentation Fields** Documentation Fields: Pre-defined fields to store additional information related to field context Use Documentation tab for control specific Documentation fields Available for: **Process** Tasks Activities, Call Activities, Subprocesses Gateways Properties : Problem | July Buil | Peport | Pipeline **Events** Bayley Resume Swimlane General-Decree stain Lieus ▼ Fales de Reid Indial expaisonéeure Impute Outputs Filiz Lehinaisin B × Transmon Documentation Mitila@esigner With a Pergn Peviene Advanced Implementation Lague ! Field: Software AG Training | | 3 - 52

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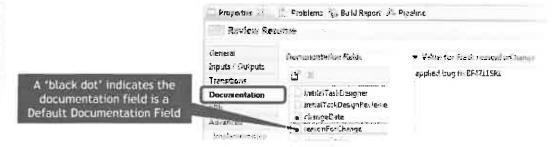
9 software~ Provide Default Documentation Fields Standardize on documentation fields by creating them in **Default Documentation Fields** Designer preferences . So. . a. € A6 Ajar Der ain ser 44 applie : Business Rules Documentation Fields are Business Services intestRevisionDate Code Saneration structured into categories initis Designer initi : DesigRevie : er Construct Continue us Quer, Caralog ment Ç E e. Document Er Jansion ge entDescripton Act vito Er tire Select the category and E en . e changeDale resconFe-Change click "Add" External Today Integration Servers changeCoder Gateria Natura Fredict Description and Generation 5 i plane **Default Documentation Fields** 4 Process Development acts: are created as workspace : RIS Fracers Governance Serve preferences Default Decomentation Fields Import Section Default documentation (2) Gi Larras fields can be imported and exported Software AG Training | 1 - 53

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Editing Documentation Fields

- To specify a Default Documentation Field value for a resource:
 - 1. Select the resource and open its Documentation Fields tab
 - 2. Select the desired Default Documentation Field
 - 3. Enter a value for the field selected



- To add a new Documentation Field with a value for a resource:
 - 1. Select the resource and open its Documentation Fields property
 - 2. Select 🗓
 - 3. Enter a Documentation Field name and value

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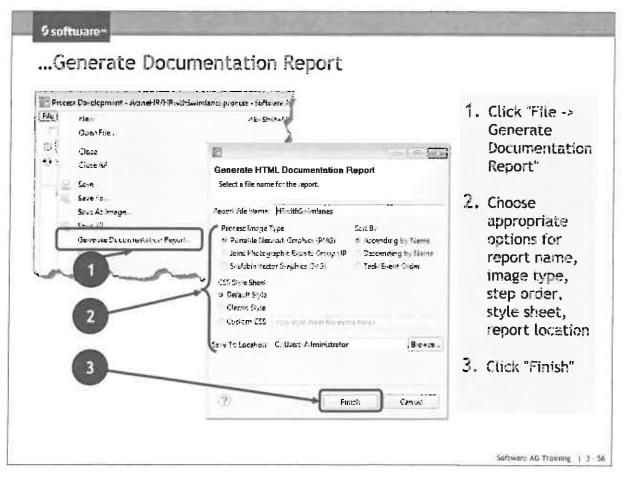
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Generate Documentation Report...

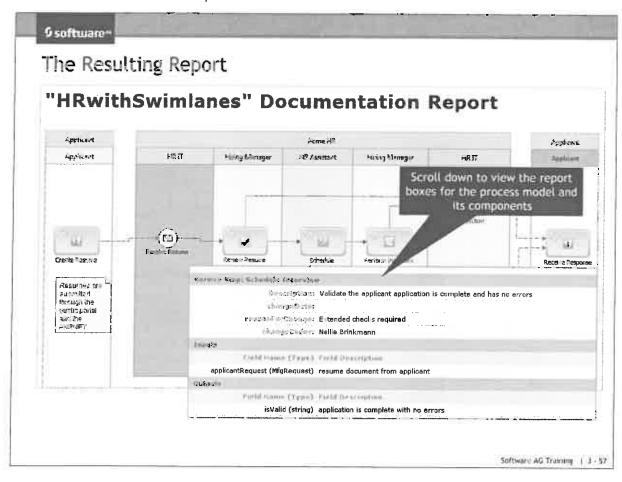
- The Documentation Report contains all the documentation within a process model
- Documentation is created as an HTML file containing tables and pictures
- Ordering of the steps within the document may be specified (ascending, descending, step order)
- Type of file containing process images within report may be specified

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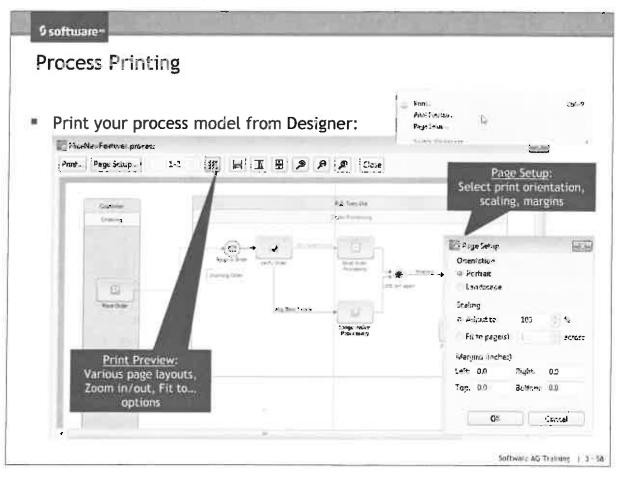


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Process Debugging

- Designer provides Process Debugger
 - Based on standard Eclipse debugging facility



- Offered by Process Debugging perspective
 - Additional views
- Uses actual Process Engine and MWS, not an emulator
 - Minimal impact on the Process Engine Process Engine can still be running other processes in parallel

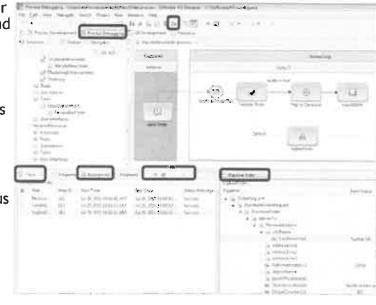
Software AG Training | 1 3 - 59

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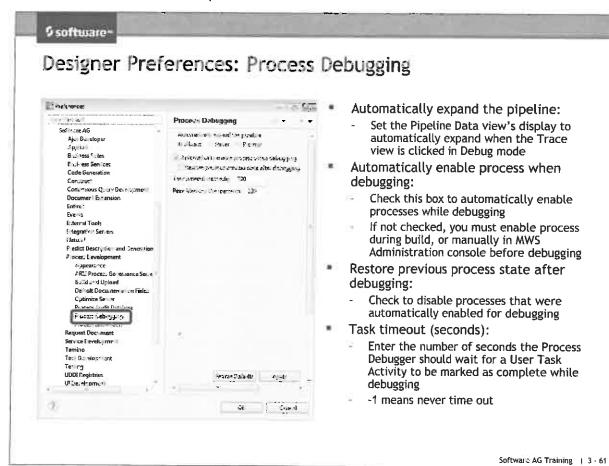
Process Debugger in Designer

- Executes automatic & User
 Task Activities, Events, and
 Gateways of a process
- Handles User Task activities by queuing the Task and launching a browser to visit Task pages
- Process pipeline may be viewed & modified at any step
- The state of the pipeline may be viewed for previous steps
- Data can be saved from a debug session, previously used data can be loaded into the Debugger as test data



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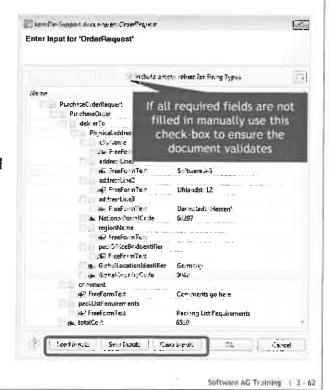


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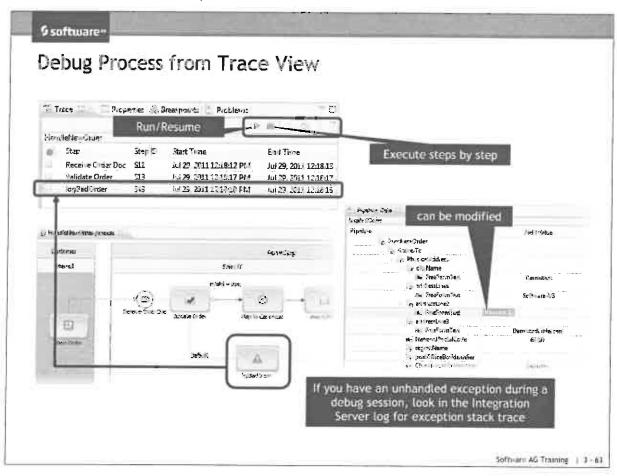
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Starting a Debug Session

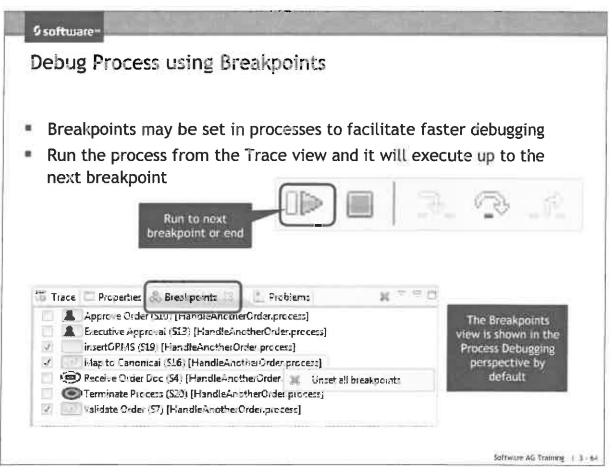
- Launch the Process Debugger from Designer
 - Designer may ask for switching into Process Debugging perspective (if not in)
 - Designer may ask for automatically enabling the process model if not yet enabled (depending on Designer preferences)
- The model will always start from a Start Message Event:
 - Start Message Event will leverage a document enter or load the document data



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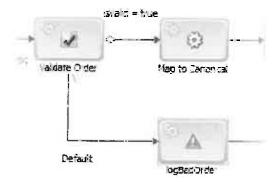


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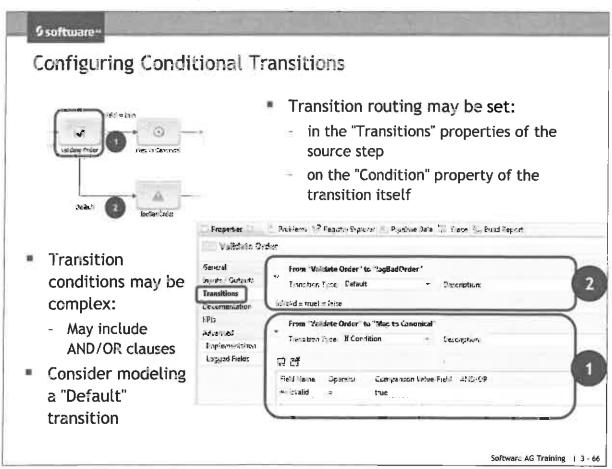
Conditional Transitions

- A process may take different routes based on process pipeline data
- A single step may have multiple outgoing transitions



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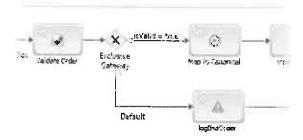


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Conditional Transitions and Gateways

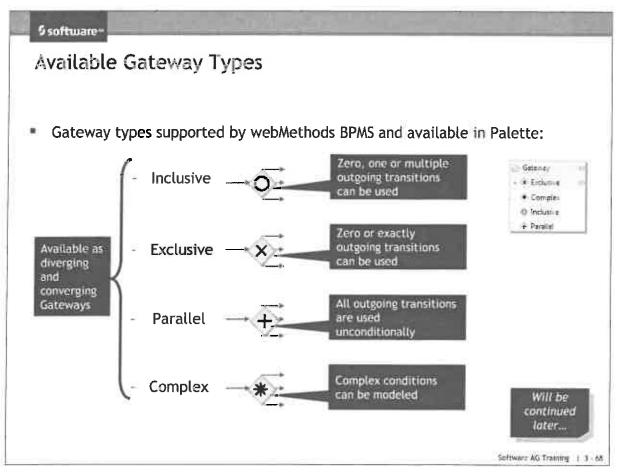
- BPMN allows outgoing conditional transitions at any Task
- To make a model more clear and easier to understand, BPMN offers diverging and converging Gateways:



- Unlike a Service Task Activity, Gateways do not invoke any background service
- After Build and Upload, Gateways don't have a generated wrapper service

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Process Testing Techniques

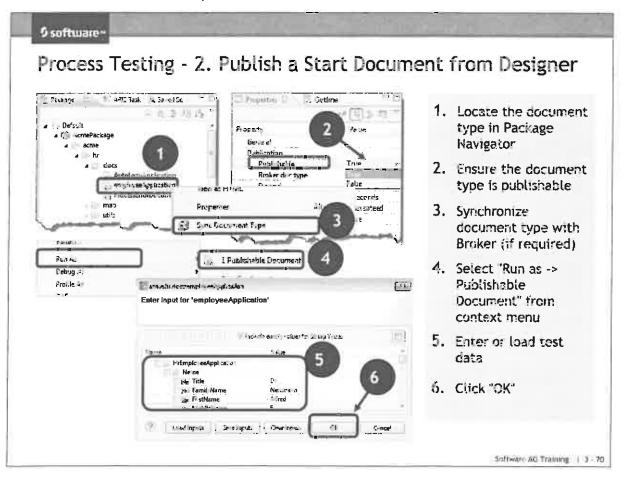
Processes may be tested in several ways:

- 1. Using Process Debugger in Designer (see above)
- 2. Publishing the Start IS document from Designer
- 3. From a browser
 - coupled with an IS service
 - coupled with Trading Networks



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Process Testing - 3. From A Browser

 Leverage an IS service that publishes start document to the Broker or the internal Integration Server dispatcher



Or:

Send document to wm.tn:receive

 Configure Trading Networks to route the document to a service that publishes the start document

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