Message Handling, Correlation and Reuse
Message Handling, Correlation and Reuse
Notes:

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Objectives

- At the end of this section, you will be able to
 - Implement messaging using Message Events or Send/Receive Task Activities
 - Explain and utilize correlation
 - Enable reuse and modularization using Call Activities
 - Implement loops at Call Activities
 - Explain the differences between Messages and Signals

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Message H	andling, Corre	lation and Reu	ise
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Objectives

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∮software~ Message Events - Throwing and Catching webMethods BPMS supports Message Events which are: Throwing a Message Like sending a message

filled Event icon means "throwing"

- Catching a message
 - Like receiving a message



Moreover, Message Event can occur at various locations in a process model ...

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Message Events - Locations

- Event Location describes where the Event happens
- BPMN specifications defines Event Location by icon's outline
- webMethods BPMS additionally indicates Event Location by icon color
 - 1. Start Event: thin (non-bold) solid outline, only outgoing transitions
 - solid double outer line, incoming and outgoing transitions
 - 3. End Event: bold solid outer line; only incoming transitions

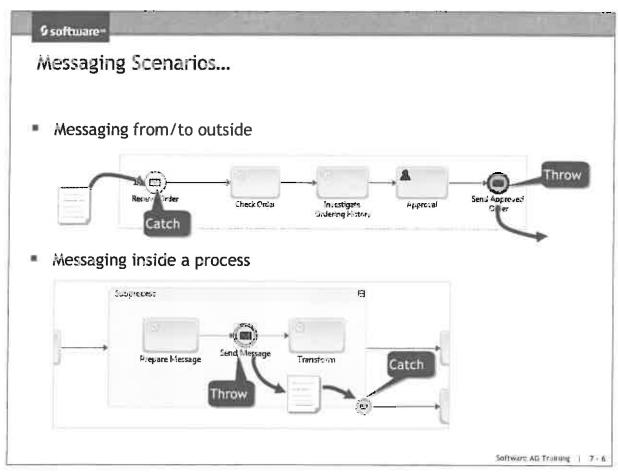


Software AG Training | 7 - 4

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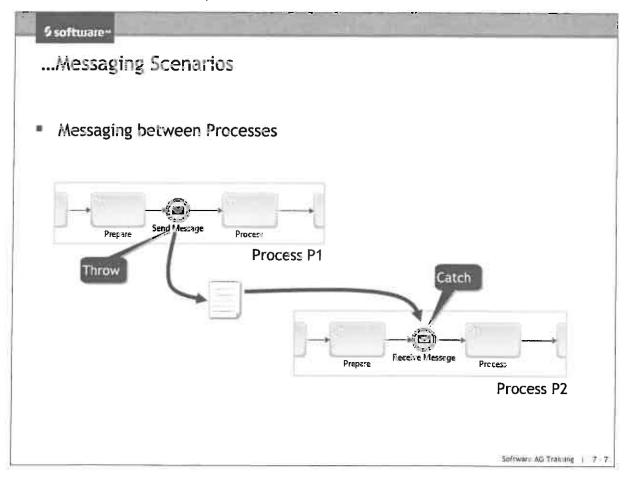
Available Message Events - All Together Start Message Event (catching) Intermediate Message Event (catching, throwing) Boundary Message Event (catching) End Message Event (throwing) Throwing Remember: Start Events are green, Intermediate & Boundary Events are orange, End Events are red.

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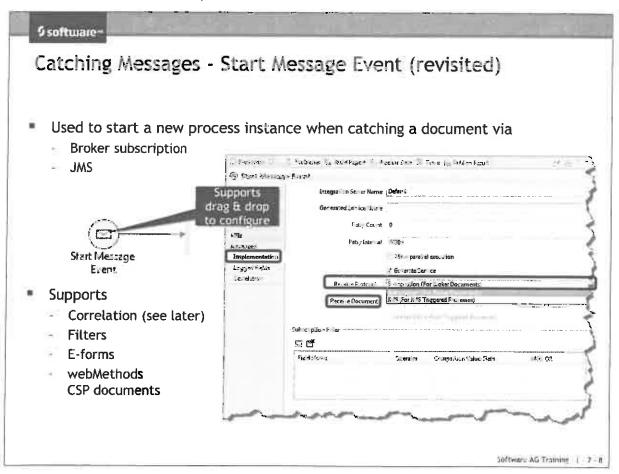


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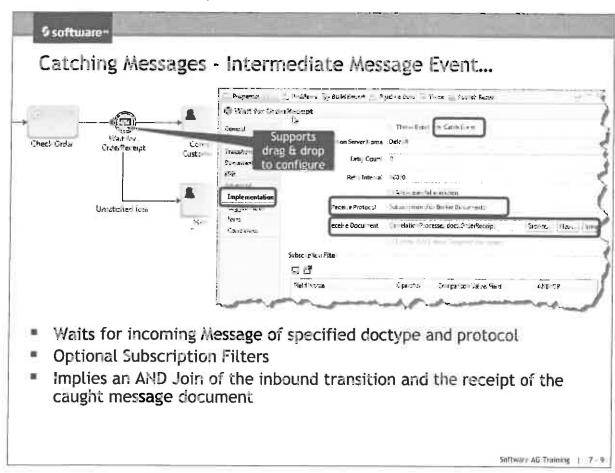
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S software* ... Catching Messages - Intermediate Message Event Frohie a le Build Pepurt : 1' cell el sua " na a q il com tembo (ID Was for CrystrPresint ********* Treat Commit . a . sius The Ludge: Dans mendium P.P.L Frecute Late Time elent based - " and at La demienta co Join Shart Time Base Fate Course del. Choose Buline : Calendar IS Joins Join Timeout Covalscon Execute e ant as foliona Ligthe foir in Casets in Heart May have a specified Join Timeout condition May have an outgoing "Unsatisfied Join" transition Supports correlation (see later)

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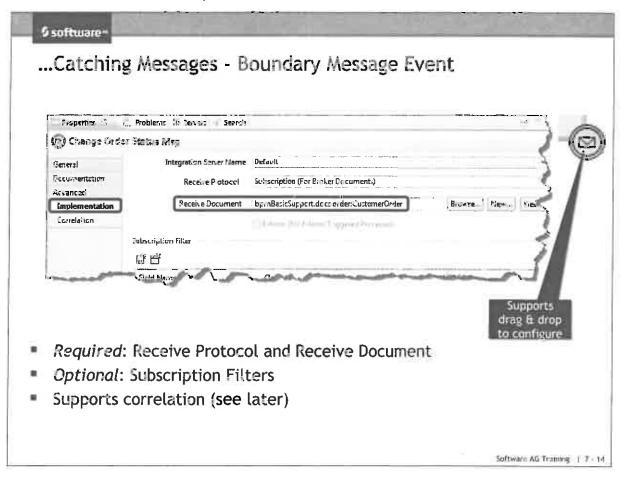
webMethods 8.2 BPM for Developers S software-Catching Messages - Boundary Events webMethods BPMS also supports BPMN Boundary Events Boundary Events are always intermediate and catching Boundary Events can be: Interrupting* Solid outer lines means "interrupting" If an interrupting Boundary Event fires, the Activity is stopped. Only outgoing transitions leaving the Event are taken. Non-interrupting* Dashed outer lines means "non-interrupting" If a non-interrupting Boundary Event fires, all transitions leaving the Event are taken. In addition other process activities continue. *Availability depends on related Activity type Software All Training | 7 - 11 Notes: ______

G software" Catching Messages - Boundary Events To create a Boundary Event, drag Event type from Palette onto an Activity or use context menu of an Activity*: E ente Check C. der ∍ (ऒStart Eigne! ck C · de Rename * hect Order - @ Interne ficte Signal Cally, elle Subprocess (Informalista del Transition. A Intermediate investage <u>or</u> add Boundary E era Add Soundary Typer Frent 🥌 intermediale Boundary Error Checse mage Add Bounday Erier Event (a) Intermediate Poundary Times Cleave implementation Ada Bounda ; Tiesungs Blant Change Tack type Add Borankien Signal Event **Palette** Open Flow Service Editor Edu Data Megaing *Availability depends on related Activity type Software AG Training | 7 - 12

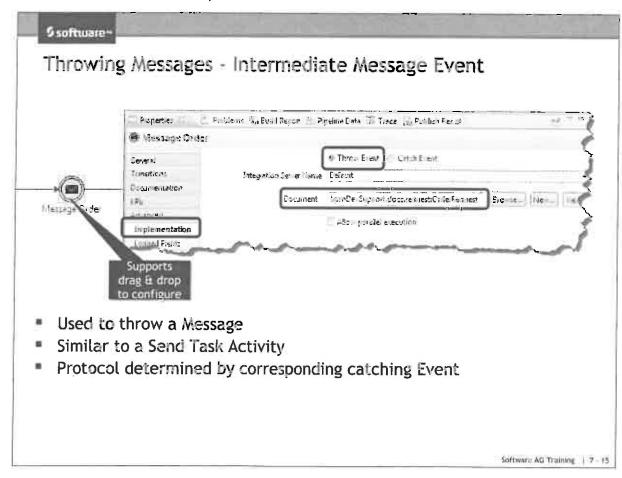
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S software-Catching Messages - Boundary Message Event... Interrupting* or non-interrupting Boundary Message Event has an own label Emperies - Authors 1155 kg South (A Carry A Chie at Sixt of Day Livesti jate - Allow Meusage Boundar: Event to later up step Critering History At traced Handle Change Becomes active when the Activity to which it is attached is executing In case of Message received: Outgoing Event transition used Normal Activity transition used (non-interrupting only) * Interrupting Boundary Message Events NOT implemented for Manual Tasks, User Tasks, Subprocesses, Call Activities, Rules Tasks. Software AG Training | 7 - 12

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Throwing Messages - End Message Event

End Message Event - Setup document to be thrown as Message



- No generated !5 wrapper service
 - Data Mapping for document to be send as message has to be performed by an upstream Activity

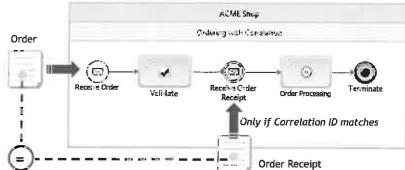
Software AG Training | 7 | 16

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Messages and Correlation...

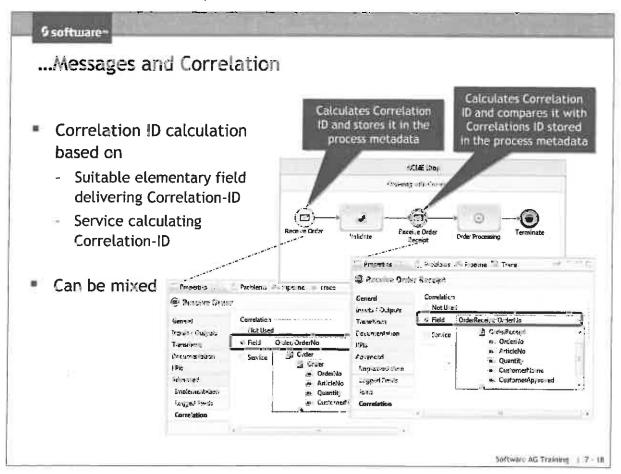
 Correlation associates a caught message document with an already running process instance based on matching Correlation ID value



- Correlation ID can be specified at any catching Message Event:
 - Start Message Event
 - Intermediate Message Event
 - Boundary Message Event

Software AG Training 1 7 - 17

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Boundary Message Events and Correlation... For Boundary Message Events, correlation is REQUIRED if the Event is thrown from an outside scope of the catching Event. Example: Process P1 Broker Prepare Receive Message Process P2 Multiple Start Message and catching Intermediate Message Events may catch a copy of one message thrown somewhere even if they belong to one process.

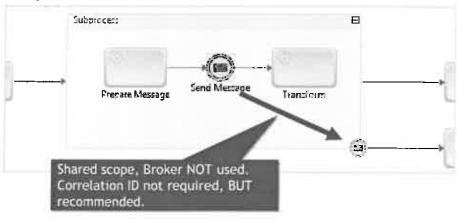
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...Boundary Message Events and Correlation

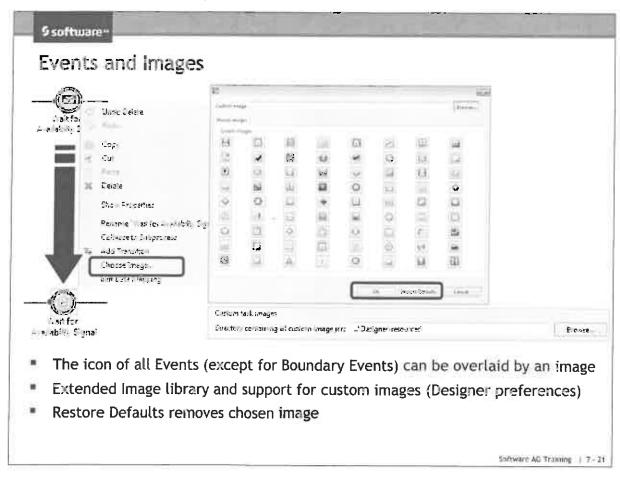
 For Boundary Message Events, correlation is NOT necessary if the event is thrown from WITHIN the scope of the activity that contains the Boundary Event.

Example:



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webMethods 8.2 BPM for Developers



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∮ software -Receive Task Activity Receives a message Bisseles Mars if first Sprand Types - of Agrees process Activity Supports three protocols: D. Penning Start Subscription (Broker p/s) Type Bennie 2.4.0 **JMS** Simple Service Protocol Discountief expenses Conexico Compensating Can be first process task* Suit condition (For Brother Cocuments) Comple Service (For Simple anous Pactive, 18-15 (For JMS Triggered Processes) Like a Start Message Event May create a new process instance* Can be within a process (intermediate Receive)** - Like a catching Intermediate Message Event Supports subscription filters and correlation net recommended for Subscription or JMS protocol; use Start Message Event instead ** not recommended for Subscription or JMS protocol; use catching Intermediate Message Event instead Software AG Training | 7 - 22 Notes:

S software* Send Task Activity without Synchronous Reply To Frommers and wid Bever Propries Sute 1. Thee Activity publishes ■ Publish chosen document as tiene al Jukage . nebras message to the Broker, Internation Cemer Name (La atri Traction if "Send synchronous Generate / Dur lice Timme Deciminately: P.Fit. Rein Count 0 reply to" is not used* LU BACAG Fetr Internal 60000 Implen estation Louge , Fre d Document EpinDesSupportAutosite plest ScienPriquest Discret Page Acts like throwing Alto partiel e scutic s Intermediate Message Event Send synchronous reply to During the build an IS wrapper service is created for this Will be continued later-**Activity** * If "Send synchronous reply to" is not used, better use throwing Intermediate Message Event instead Software AG Truining | 7 - 23

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5 software Process Invocation using a Call Activity Process models may be invoked by a parent process model using a Call Activity Promotes reuse and modularization Enables you to hide complexity To implement a child process invocation A Call Activity will always have a bold border. The ** Marker only be visible when child configure a Call Activity in your parent process process has been assigned. Call Activity supports two invocation types: Pictorine 7 . Problems 8 Pipeline Trace **BPMN Callable Processes BPMN** compliant Integration Server Nume Default I gent Cutyute webMethods Transfer s Type . 4 87 471 Callable Process webiviethods list-renced Proces Continentation Referenced Processes K/95 Generated Service Name H -30 FE proprietary Retr; Count 0 Imp ementation Liggad Fields les

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S software BPMN Callable "Child" Process Prerequisite: A BPMN callable child process MUST start with Start None Event: Dubble: Fg. se bur Signature of a callable child process specified by process property "Global Process Specification", available for all BPM processes. Figures. Triblers (a) Estim Pigo 1 1 3 July Deat. Tidle - 400 ianural. 司占理 : Pf. List Largin ca 24.24.742 Ele Re ton t Global Process Specification can be retrieved from Start None Event Software AG Training | 7 - 25

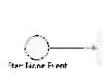
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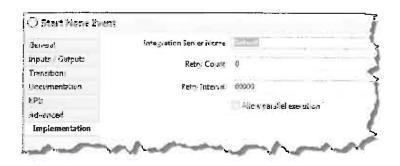
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BPMN Callable "Child" Process - Start None Event

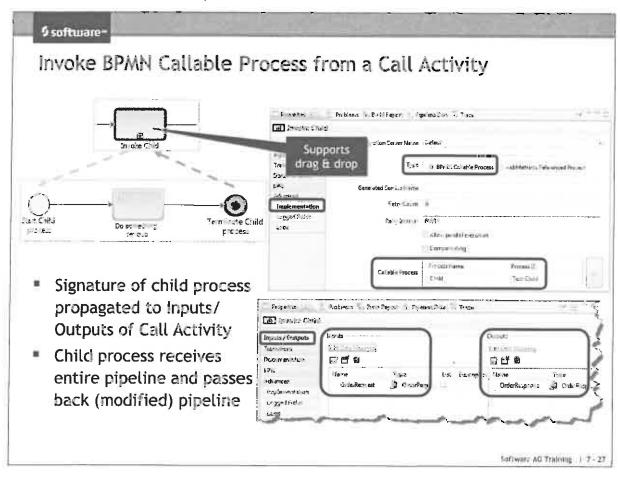
- Start None Event (mainly) used to start a BPMN Callable Processes
- No input document (inputs)
- Outputs can be derived from Global Process Specification







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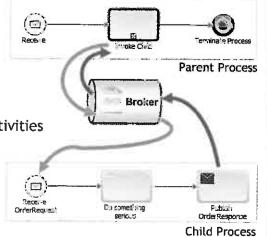


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webMethods Referenced "Child" Process

- Prerequisite: A child process called as webMethods Referenced Process MUST start with Start Message Event
- Child process inputs determined by
 - Mandatory Start Message Event
 - Optional catching Intermediate Message Events
 - Optional Boundary Message Events
 - Optional intermediate Receive Task Activities
- Child process outputs defined by optional Send Task Activity

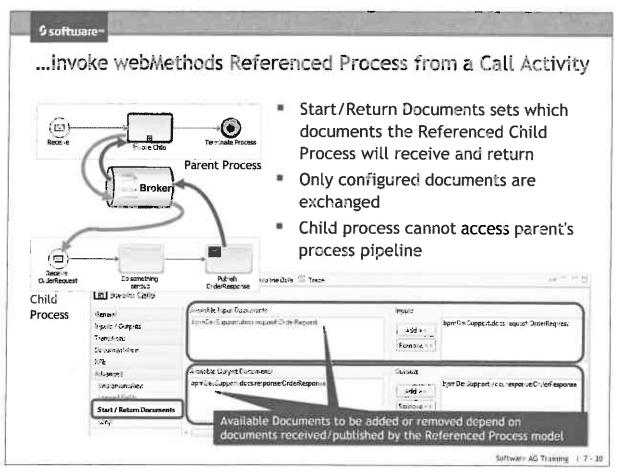


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6 software Invoke webMethods Referenced Process from a Call Activity... Set invocation type to webMethods Referenced Properties Trublems Thomas one to Remove Date Degree process 1 tables 04a Integration Senier Hame ing also integrals Select the Caremin's ma desired child Generated Service Name Eetr Ca unt . process model Start Person Froughters All a this ep to dinaminally investigate or more references est Chi Software AG Training | T - 29

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Call Activity - Drag & Drop / Browse

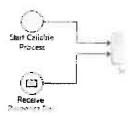
- When configuring a Call Activity and assigning a child process using
 - "Drag & Drop" from Solutions view onto Call activity or process whitespace
 - "Browse" button within Call Activity properties

the Call Activity makes an "intelligent decision":

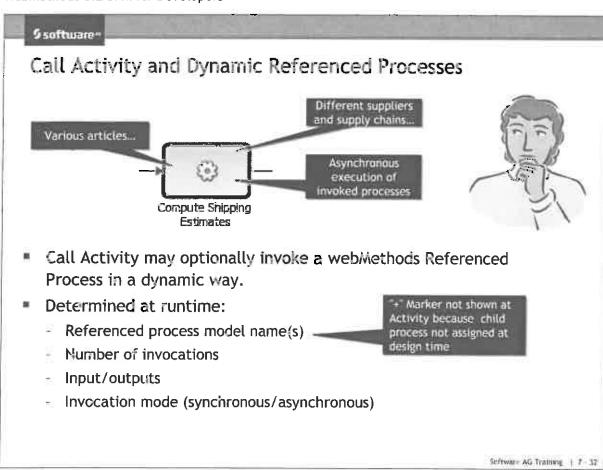


Invoke Child

- A child process containing at least one None Start Event will be defaulted to "BPMN Callable Process".
- A child process that does not contain a None Start Event will be defaulted to the type "webMethods Referenced Process".
- "Hybrid" child processes are possible

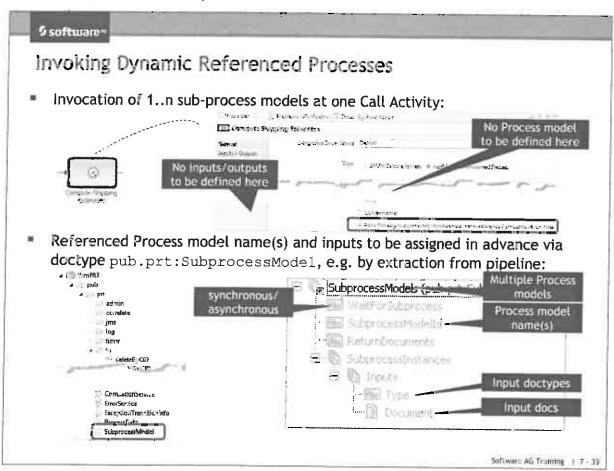


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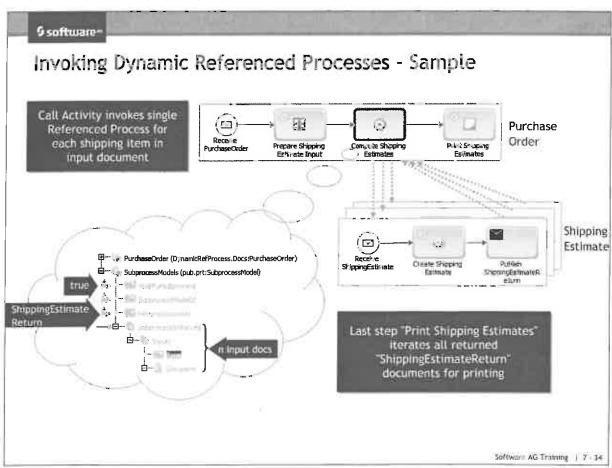


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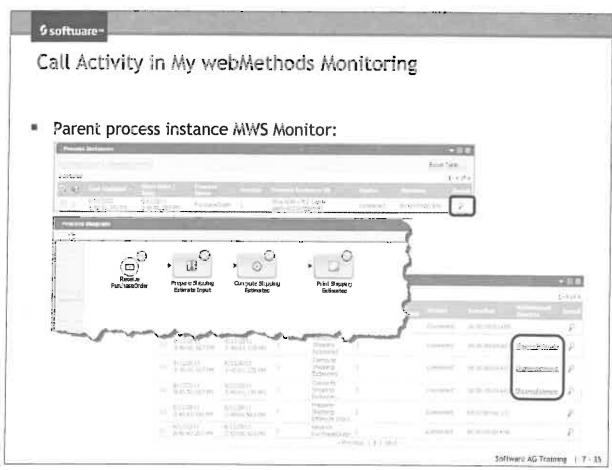
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Call Activity and Integration Server Name(s)

- Call Activity itself is executed on assigned Integration Server
- Invoked Child Process
 (BPMN Callable or webMethods Referenced Process):
 - New process instance created and executed
 - Each step processed on assigned Integration Server
 - Call Activity in parent process waits for successful termination of invoked child process (synchronous)
- Dynamic Referenced Process:
 - One or multiple process instance(s) created and executed
 - Each step processed on assigned Integration Server
 - Multiple invoked processes may run in parallel
 - Synchronous or asynchronous process invocation possible

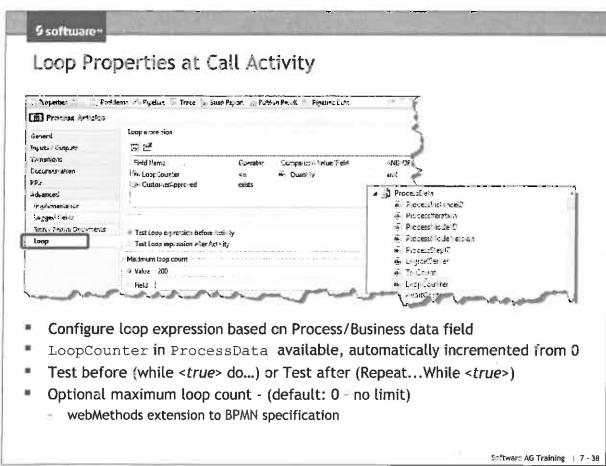
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Call Activity with Loop Marker Receive Order Check Order Proc India Send Notification Farmhete Loop Marker Start Investigate words Root Stort In estigate Article Investigate Investigate Investigate Investigate Investigate Investigate Investiga

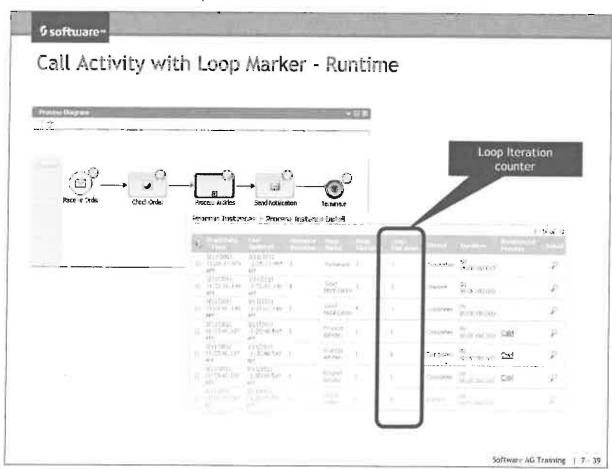
- Loop Marker available for Call Activity and Subprocess.
- Loop Marker indicates a configured loop (repeat) of the Call Activity.
- Loop configuration using Loop Properties.
- Process metadata contains LoopCounter for loop control.
- Loops are supported by Debugger and Process Monitor as well.

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BPMN Callable Process vs. webMethods Referenced Process

- BPMN callable process
 - BPMN 2.0 compliant
 - Loop support
 - Child process must start with a Start None Event
 - Child process has full access to the process pipeline of its parent, so it may modify any value or even delete it.
 - Synchronous invocation of child process
- webMethods Referenced Process
 - webMethods proprietary
 - Loop support
 - Child Process must start with a Start Message Event
 - Child process has only access to data passed via Broker and optionally may pass back data using (several) Send Task Activities
 - Synchronous and Dynamic Referenced Processes
 - Dynamic Referenced Processes allows to invoke multiple process from one Call Activity, optional asynchronous invocation

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Signals and Signal Events

BPMN and webMethods BPMS also support Signals and Signal Events







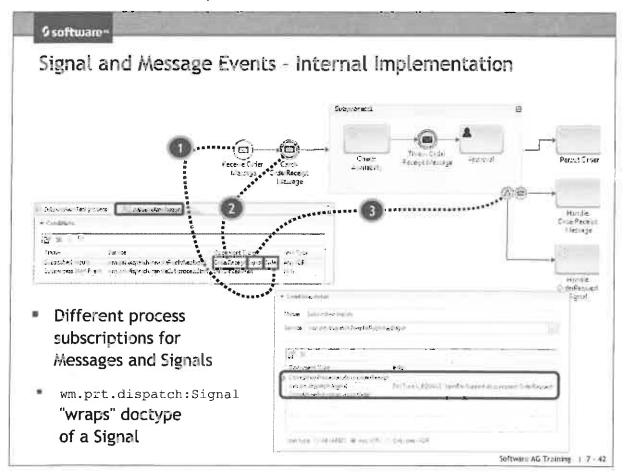






- Design time: No difference between Message and Signal except for icons
- Both are passed like a message (internal or via Broker)
- Process Engine has to distinguish between Messages and Events:
 - This is to avoid catching a Message by a Signal Event and vice versa, if same doctype is used
 - Catching Message Event: Trigger listens for the publishable document
 - Catching Signal Events: Triggers listens for a container document containing publishable document

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Using Signal Events - Sample | Verify | Add Article | Add Article | Add Article | Approximately | Add Article | Add Article | Approximately | Add Article | Add Article | Approximately | Approximately | Add Article | Approximately | Approximate

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User Task Archite	ecture and Ref	actoring	1
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Objectives

- At the end of this section, you will be able to
 - Describe User Task concepts, architecture, deployment and configuration in webMethods BPMS
 - Name the User Task lifecycle states
 - Generate a User Task type in Designer
 - Identify the generated User Task pages and portlets
 - Use the Task Editor in Designer
 - Perform refactoring of User Task's Business Data

Notes:

- Test a User Task from a process instance
- View/Edit User Tasks using My webMethods

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User Tasks - Revisited





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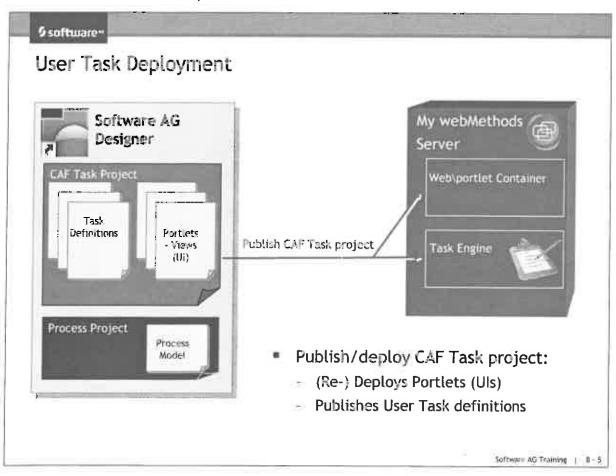
- Managed by the Task Engine
- "Live" until finished or deleted
- Allow user interaction during their lifetime
- Shown in the Inbox of Assignees
 - user, group, role
- Typical task execution involves:
 - Assignment to user, group or role
 - Delegation by user
 - Acceptance by user
 - Completion by user
- Return control back to Process
 Engine when finished

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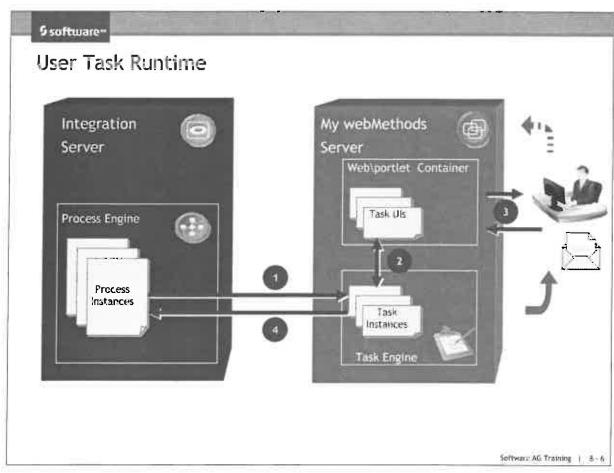


- Several User Task UIs are provided for different purposes via portlets that are accessed within the MWS UI
 - Most of these UIs are customizable
- Security privileges ensure User Tasks are visible and manipulated by appropriate users
- User Tasks may be delegated to alternate parties if assignees are unavailable
- User Task logic may trigger email notifications to important parties
- Important User Task state transitions and events are logged in a task audit trail

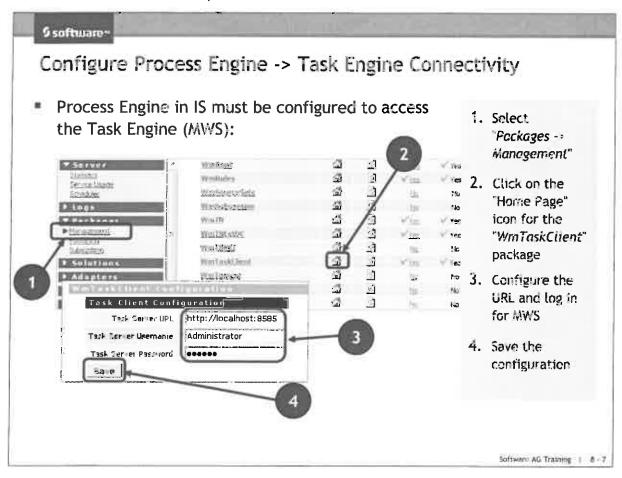
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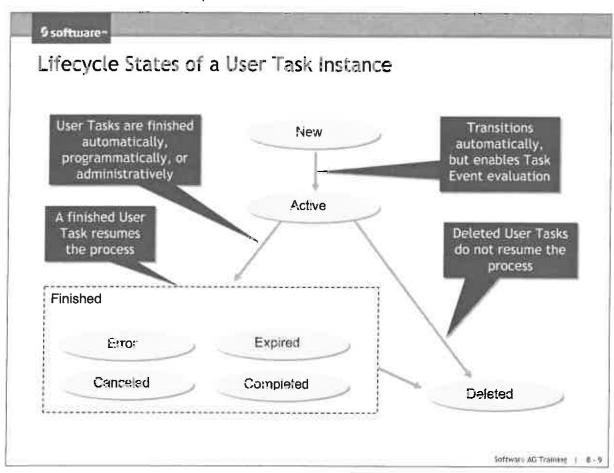
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S software-Configure Task Engine -> Process Engine Connectivity The Task Engine in MWS must be configured to access the Process Engine in an Integration Server: Stoftware- My webMethods 4 + £105 p 4 Divelgate Tank English F Hunkoring - Adminitions Administrator F /feufschlag · System . ide I Autivitie A CONTRACT Integration Server (Process Engine Host) integration III localhost = Threathusticuts 5555 The SSC Held Methylik Business Budge Se Note Seal Juneau Fores Section 6.68 Software AG Training | H - H

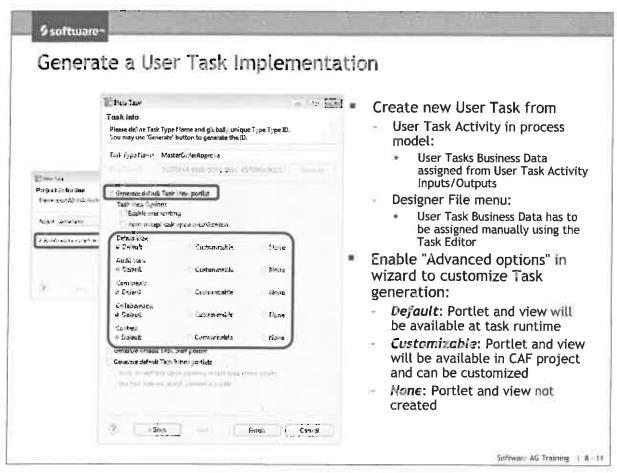
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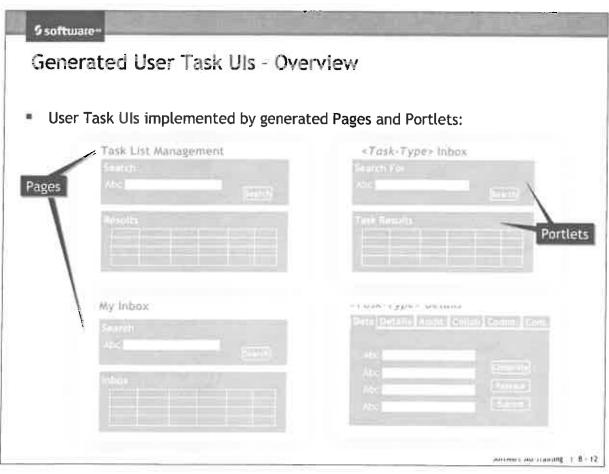


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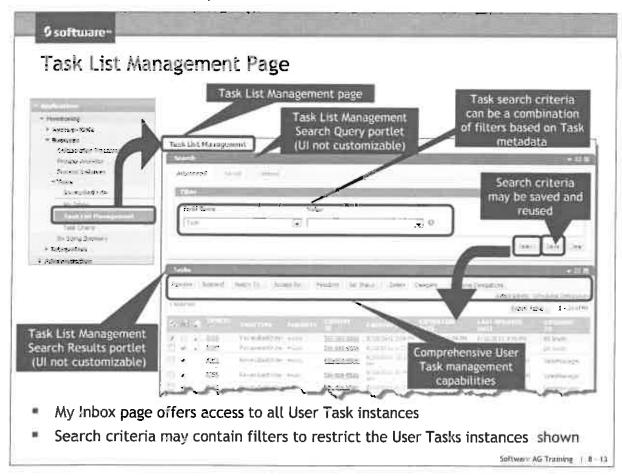
webMethods 8.2 BPM for Developers 5 software-User Task Development - Revisited To develop a User Task for a User Task-oriented process: Process Development 1. Add an User Task Activity to your process model and assign Inputs/Outputs to your User Task Activity 2. Generate a User Task implementation in User Task Project **UI** Development 3. Generate a User Task implementation from User Task Activity or extended in from Designer's File menu this chapter 4. Customize the User Task 5. Save and Publish User Task project to MWS 6. Build and upload the related process project 7. Test your User Task extended in this chapter Software AG Training | 8 - 10

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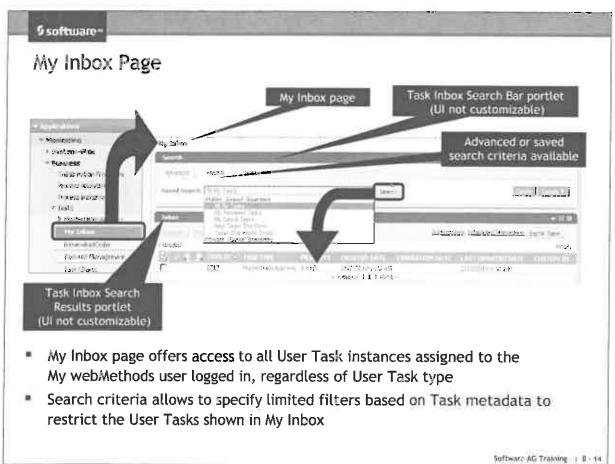




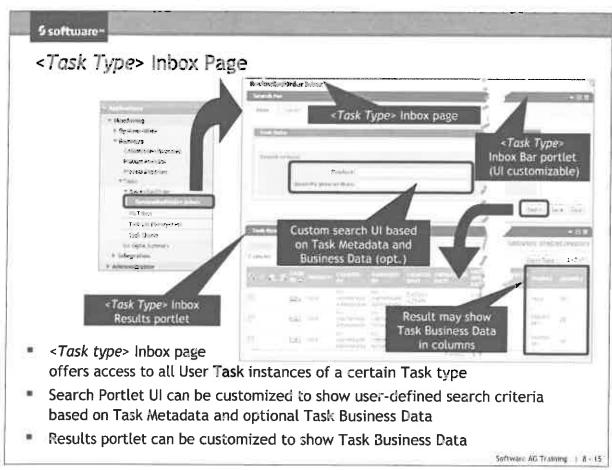
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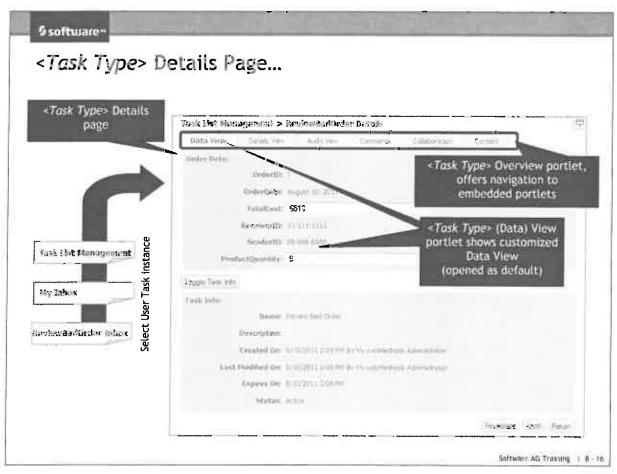
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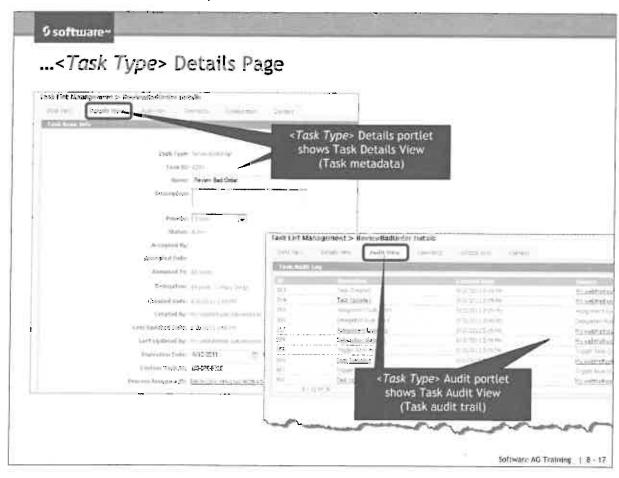
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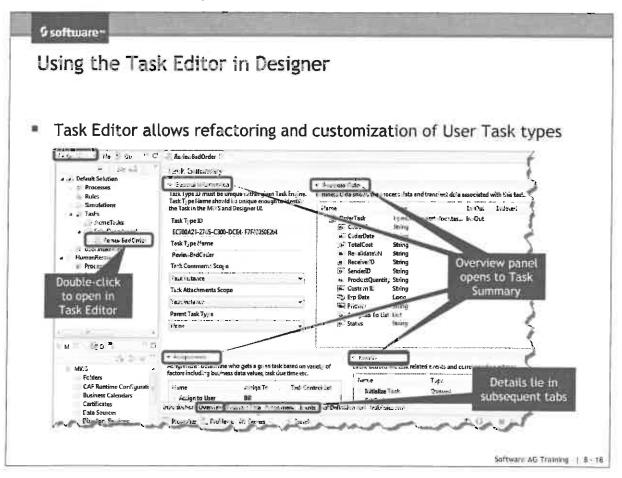
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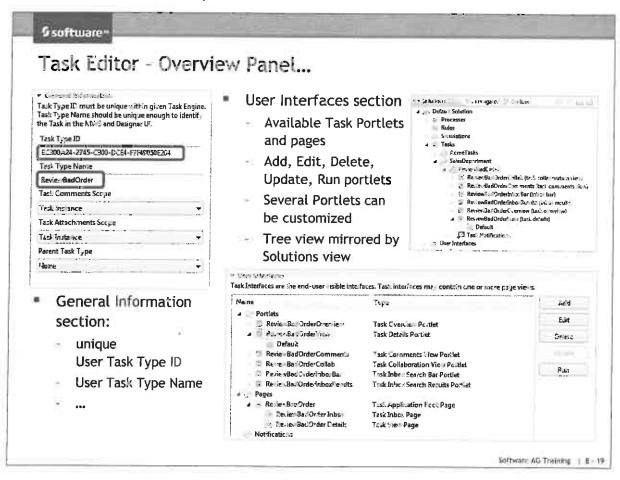
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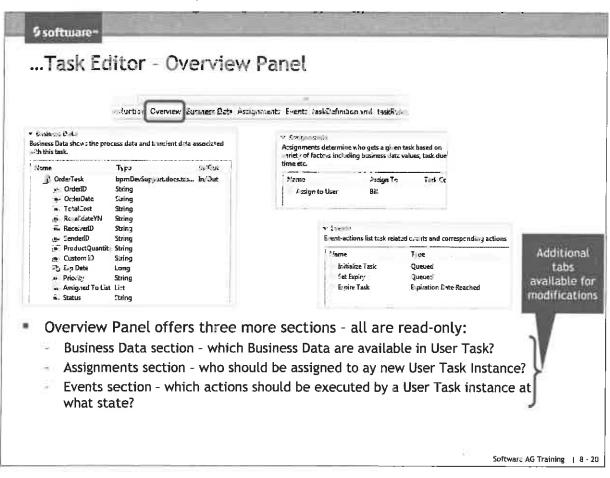
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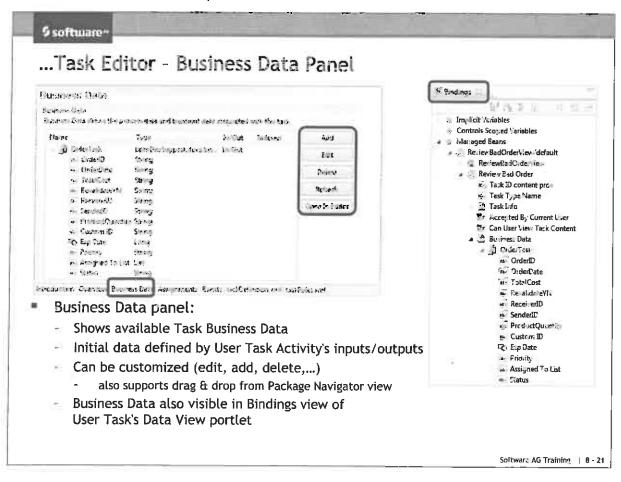
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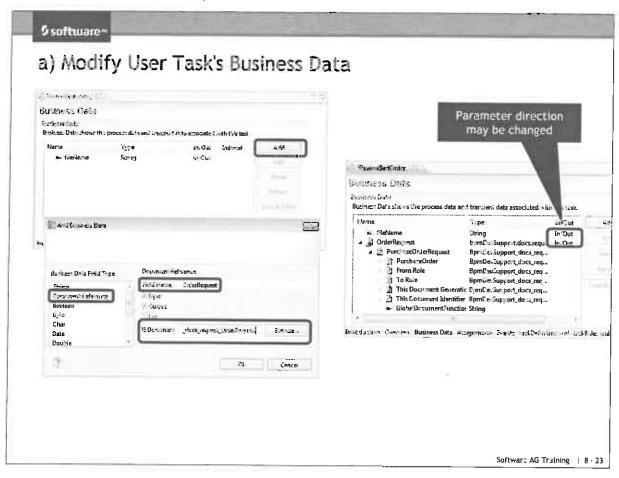
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Re-factoring User Task Business Data

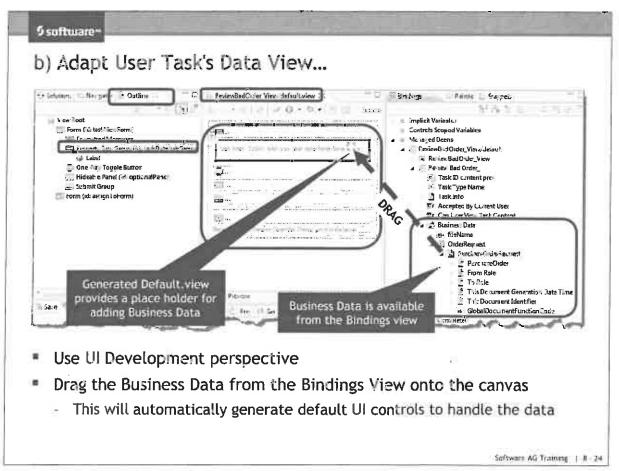
- Task Business Data can be re-factored using the Task Editor
 - Requires an update to the inputs/outputs
 of any User Task Activity that reference this task type
- To re-factor Task Business Data:
 - Modify User Task's Business Data
 - Adapt User Task's Data View using new Business Data
 - Preview the User Task UI (optional)
 - Re-publish the User Task project to MWS
 - Update Inputs/outputs on the User Task Activities in the related process models to match the modified User Task's Business Data
 - Re-build and upload the related process models

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...b) Adapt User Task's Data View Resulting view contains forms and text boxes for all fields in the complex data structure Save and republish User Task project after UI customization

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9 softwarec) Preview the User Task UI Designer's Preview tab Rendered view of task UI Assists with WYSIWYG development **Preview Server** Quick preview of wizard based Uls Your lab environment is Must add CAF project to the Preview Server preconfigured with a Preview Server To be configured/ started/ stopped using Servers view Runs in Designer's My webluethod's Preview Senie ix.neTask: Java VM Starts faster than a "real" MWS Softwark AG Training | 8 - 26

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d) Re-publish the User Task Project to MWS Since the User Task configuration has changed, the User Task project is out of sync with MWS Re-publish the project to MWS from Servers view Properties: Froblems: Server: Search in Build Pecort My webMethod: Server: Periote at localhost [Started Republish] An alternative approach to re-publishing projects is to right-click on the server and select Publish.

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- e) Update User Task Activities in the Process Model or...
- Update inputs/Outputs properties of User Task Activities in related process models to match the modified User Task's Business Data
 - delete existing input and output entries, but...
 - ...do NOT delete generated document references of types:
 - TaskQueueInfo
 - TaskCompletionInfo



Add or refresh inputs and outputs based on your in/out signature set in the modified User Task's Business Data



 Ensure that other process steps and transitions leverage the updated input and output variables as appropriate

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6 software* ... Or e) Use Modified Task Type from a new User Task Activity Friends Line Lines (Sant Louis Apper) Select the User A Perior Bad Distri Task Activity and T, pe User les de Ouipid. Integration Server Name Default inspect its Generated Service Name I'd tarner repo-Properties view £PL Ret - Count II Advarecerl Frat Internal 50000 2. Browse for existing usuge...Fra. 🖰 User Task Name Compensatium 1144 3. Select the Turks User Task Name Tasi Control Set · Mertulatific innTast 4. User Task Name inpre Mar. er hpp:c eUnder2 Re er Ap lica on and User Task Type Pa ge Br Coger **!D** properties are auto-completed Task Name Task T pe ID Re ev 3a10 der 1D1--C6/1-BC19--19CA-5D31--598A203C (3BC Refresh/adapt Tas: În or. 35t en Task Cont. of Cet Inputs/Outputs of None **User Task Activity** Software AG Training | 8 - 29

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- f) Re-build and Upload the Related Process Models
- Switch to Process Development perspective
- Re-build / upload all process(es) that use the User Task Type:



 After this step, modified process(es) and re-factored User Task types are available for debugging and/or testing

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Testing User Tasks

Possibilities:

1. Test the User Task by launching or debugging the related process. When the User Task Activity steps are executed, a new User Task instance is queued by the Task Engine.

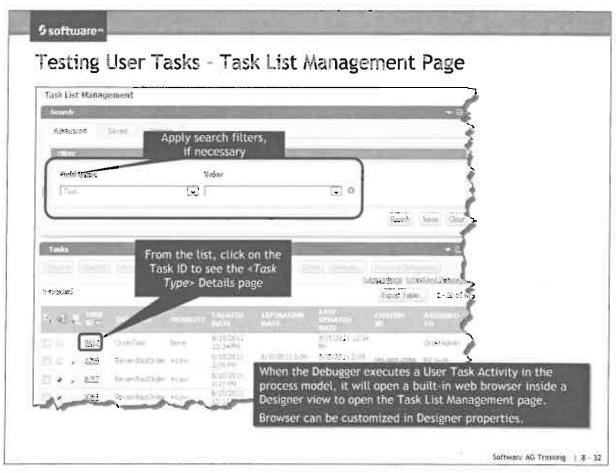


- Launch related process by publishing a document
 - Publish using a service, remote client, or Designer
- Debug related process using Debugger in Designer
 - Designer automatically opens Task List Management page in a browser view
- 2. Start User Task standalone from My webMethods Administration console
 - Requires Start portlet available for in the User Task implementation

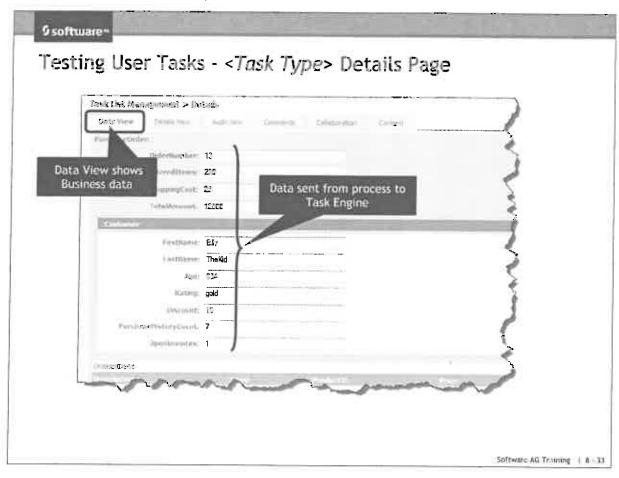
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Use Task List Management page in My webMethods to view and manipulate queued User Task instances. The Administrator always has privileges to access and manage all User Tasks.

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