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Objectives

- At the end of this section, you will be able to
 - Define and maintain User Task permissions
 - Manage individual User Task instances
 - Administer User Task types

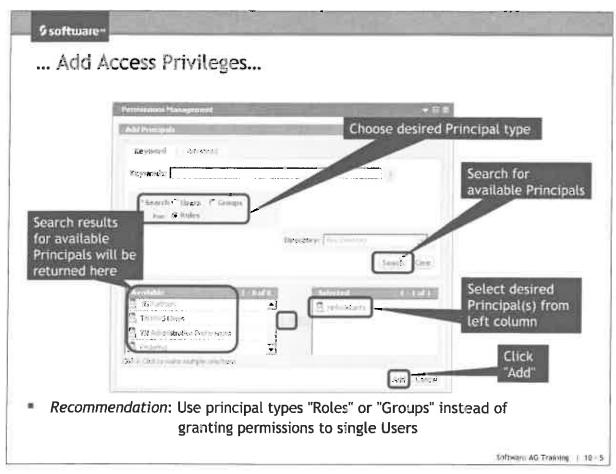
Software AG Training | 10 - 2

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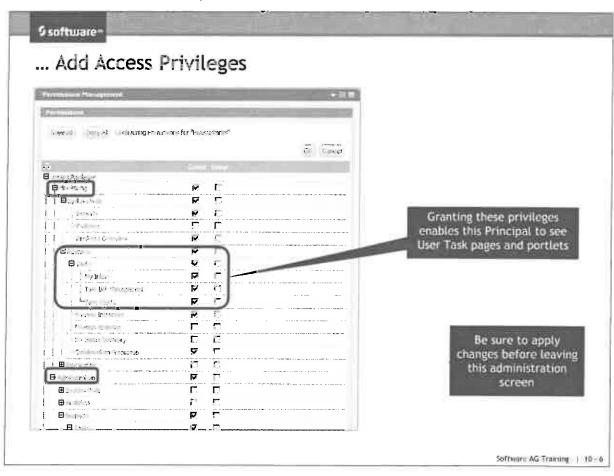
6 software= Permissions Management Permissions in MWS is configured through Permissions Management Grant/revoke permissions for Resource types webMethods Applications Tasks (User) Tasks Workspaces Workspaces to Principals of types Users C Users C Groups Roles Groups Roles Permissions are organized into two main categories: Access Privileges - "which menu items and pages can I see and reach within MWS console" Functional Privileges - "what actions am I allowed to execute" Software AG Training | 10 - 3 Notes: ______

S software-Add Access Privileges Customize which pages Select generic Resource type Permissions Management "webMethods Applications" and portlets a principal is allowed to see using My webMethods 34000 Relativist Topial Widolf Ind Art to Seach See > Monitoring ▼ Administration J. Mirasoping lide v e figgled. If he Others Table Ar 1. 5 " 2" 2,5 4 Ke 1 Las de de de Sa Caloscal Parishing Click "Next" , so the min strong of En Frankrist I in floor, Heat Software AG Training | 10 - 4

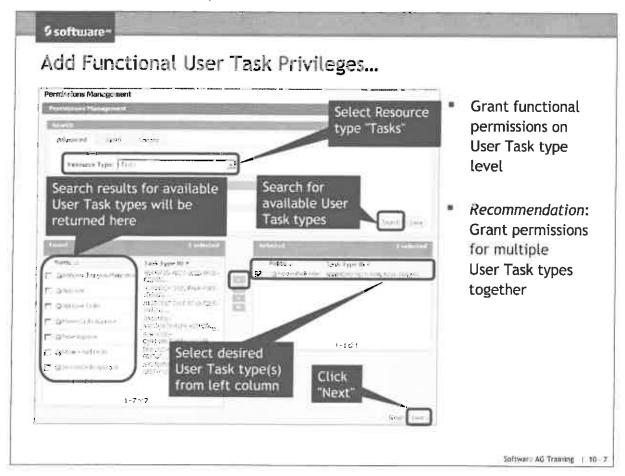
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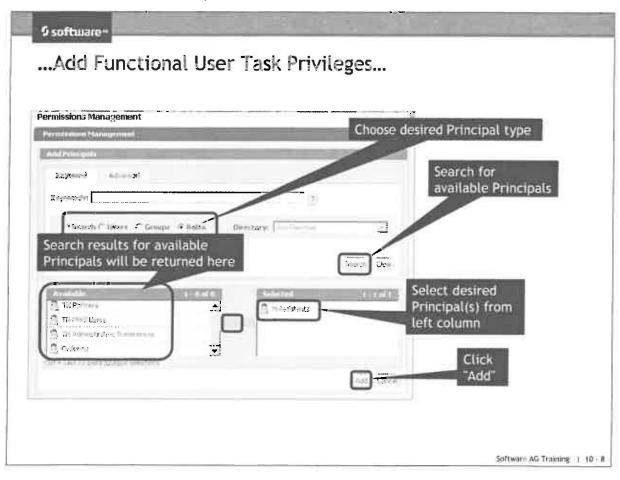
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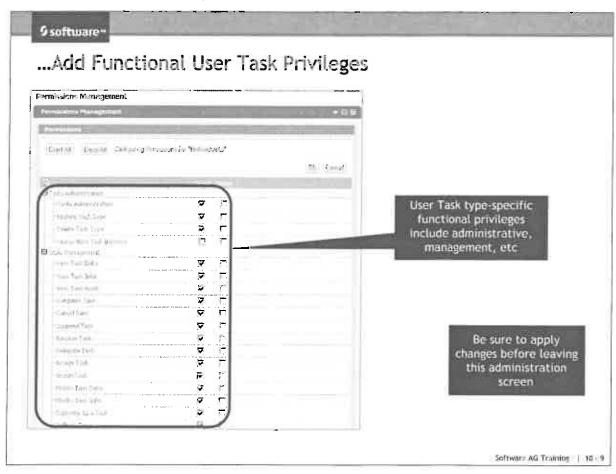
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Task List Management

 Task List Management page provides buttons to manage User Tasks:



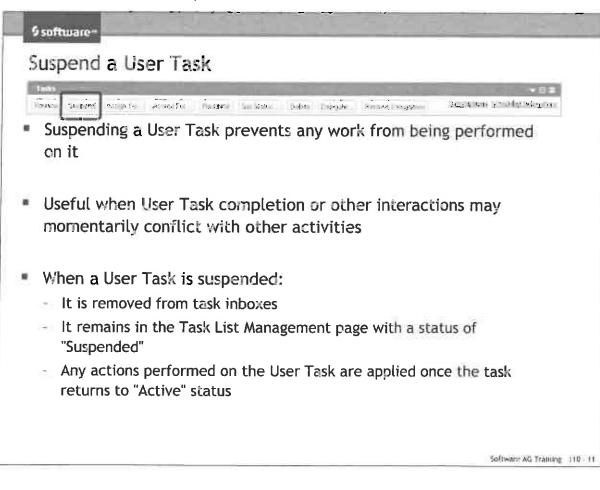
- User Task Management may only be performed on tasks which are "Active" or "Suspended"
 You cannot apply Task List
 - Exception: Delete allowed regardless of instance state

Management actions to User Tasks with a status of Canceled, Completed, Error, or Expired

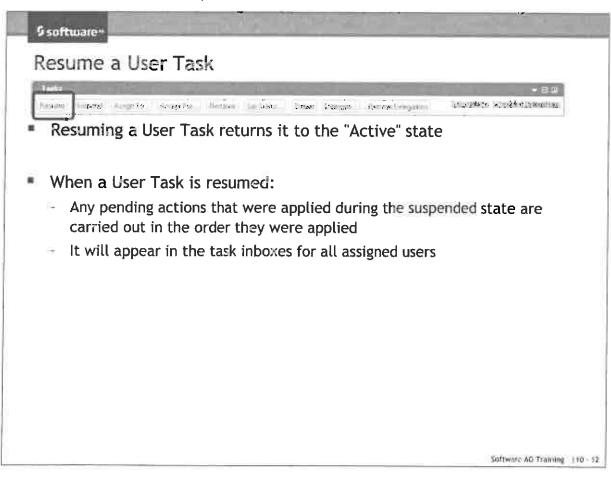
Task Engine prevents further work on User Tasks with a status:
 Canceled, Completed, Error, Expired

Software AG Training 110 - 10

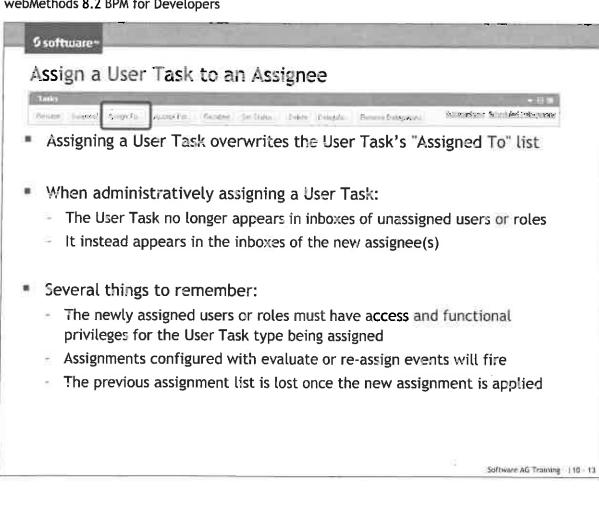
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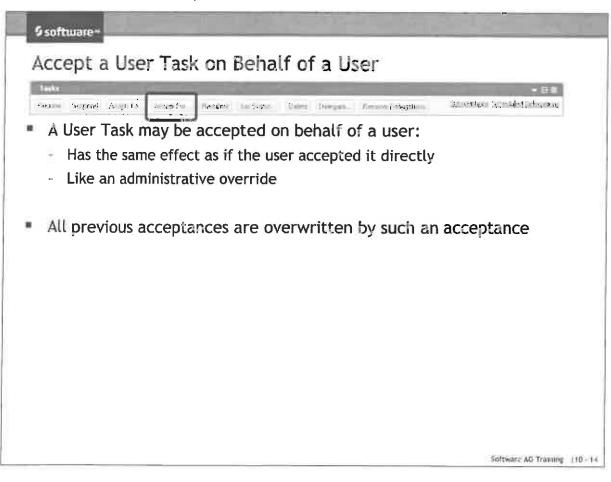
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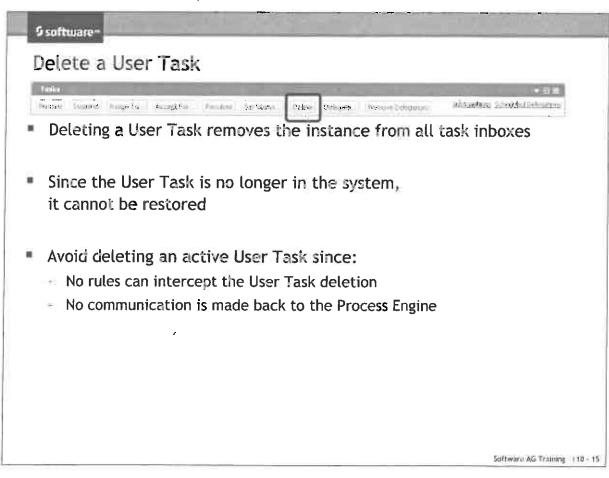
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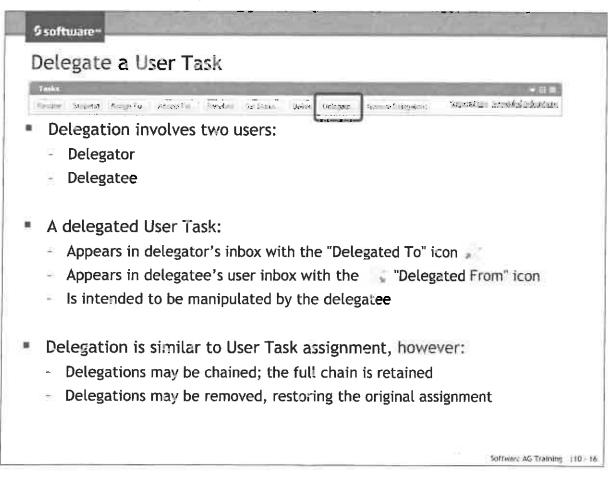
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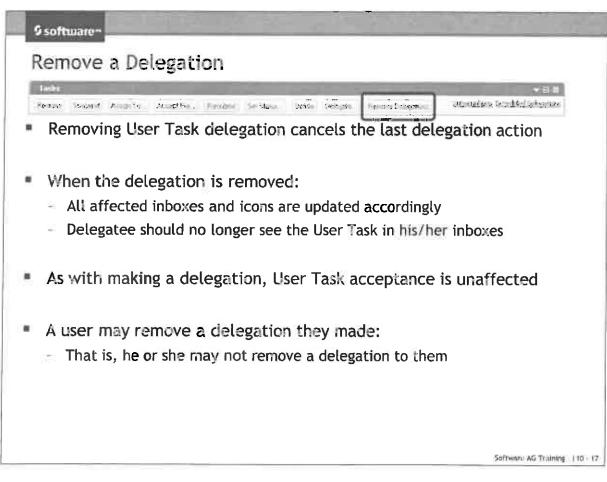


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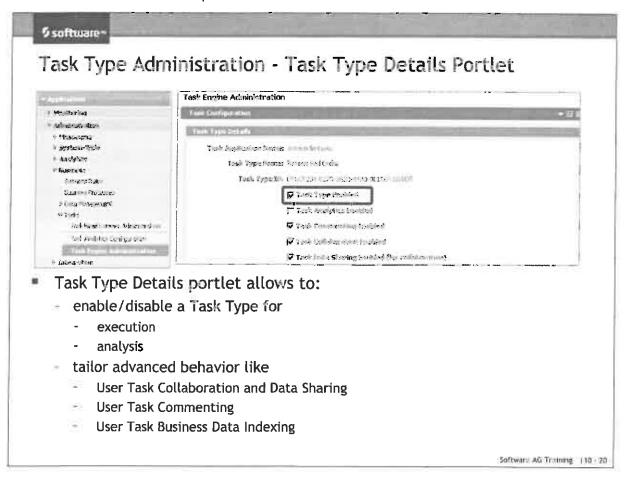


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9 software-Task Type Administration - < Task Type> Start Portlet <u>and the transfer of the same </u> AU-HOURS POSTREITT ASSOCIATION occertable reject ApproveHacsOrder Enables you to initialize and start a User Task instance manually or To a finging Administration > Approximates to the street remotely using the Task Engine API Portlet available from Task Configuration Portlet apro ef fess Order Task Test Requires for generated and published < Task Type> Start **Portlet** Default view can be customized in Designer If a User Task is only used within a process, you do not need to create a < Task Type> Start portlet Software AG Training (10 - 21

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Robust	Processes		V	
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Objectives

- At the end of this section, you will be able to
 - Configure error, cancel, and timeout handling at process level
 - Leverage error data and error handling at the process level
 - Use Boundary Events and exceptional transitions to configure exception handling at step level

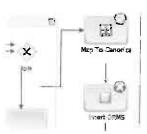
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Process Robustness

- Robust Business process is a process that is modeled/ configured to handle exception and timeout conditions, in addition to the 'normal' flow of events
- It is recommended that your processes be modeled/configured to handle exceptions like:
 - Process timeouts, cancel, and errors
 - Step timeouts, errors, endless loops, unsatisfied joins,...
- Handling an error or timeout is dependent on business requirements
- Typical examples are:
 - Route instance data to an administrator
 - Retry with a delay



ERROR



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Errors and Process Monitor Administrators will leverage the Process Monitor to determine the root cause of an error Failed process steps will be flagged Stack dumps are available for failed steps The state of the state of

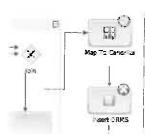
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Process Robustness

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 - Step timeouts, errors, endless loops, unsatisfied joins,...
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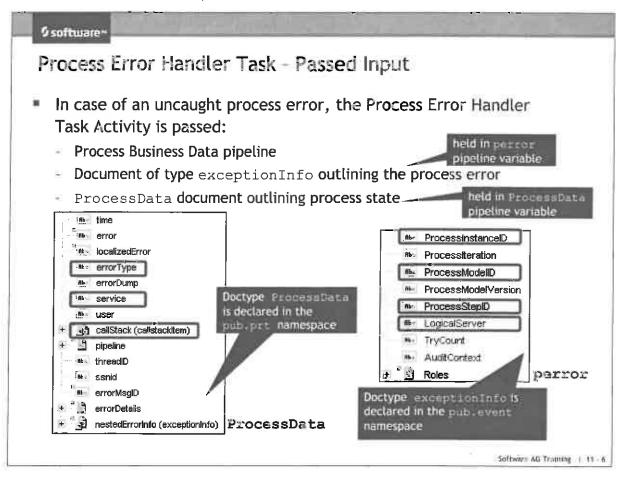
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Errors and Process Monitor Administrators will leverage the Process Monitor to determine the root cause of an error Failed process steps will be flagged Stack dumps are available for failed steps To 55 - 550 - 55

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S software* Process Errors - Process Error Handler Task Capture process errors by assigning a Process Error Handler Task Assigned Task Activity becomes decorated with Amarker Click on canvas whitespace to see process properties Problems to Bink Person C. P., elme ... Try-elme Laca . C. Seriers HPurithEnsahlanding Er or Handler Task Capture Error Seneral Dicumentation Select a Task of:date Application Tap Application Tap Application To File Activity acting as Process Error Pan Time Handler Task Cancel Tanecut Software AG Training | 11 - 5

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Process Error Handling Process - Suggestion

Service Development perspective:

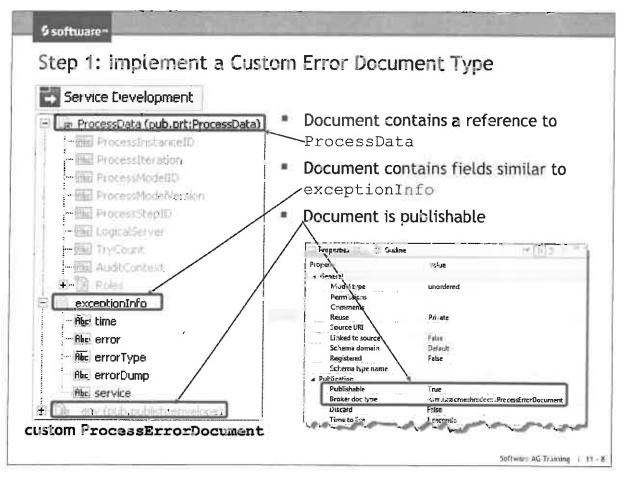
- 1. Implement an IS document acting as custom error document type
 - Make it publishable
 - Make it reusable (not necessarily attributed to one process, or one department)
- Create and save an IS service containing a Map step to map the error data to your custom error document type

Process Development perspective:

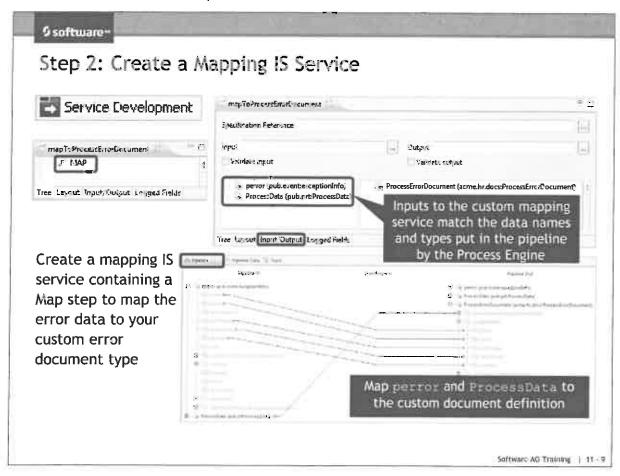
- 3. Add error handling to your process:
 - Add an Service Task Activity to your process invoking the IS service from above
 - Assign the Service Task Activity as the Process Error Handler Task
 - Add a throwing Intermediate Message Event and a transition.
 Intermediate Message Event publishes the custom error document to the Broker.
- 4. Provide additional error catching process containing:
 - Start Message Event to receive to the custom error document from other process
 - User Task Activity passing the error to a User Task as input;
 an administrator can leverage data from the custom document to resolve the process issue

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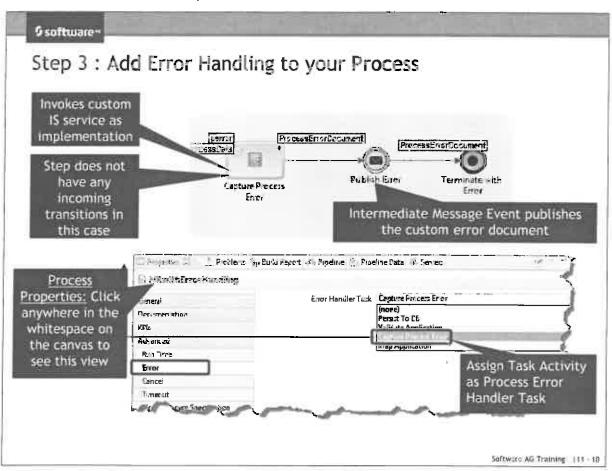
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Step 4: Provide Additional Error Catching Process

- Error catching process: separate process that catches instances of processErrorDocument from all business processes
- Examples of implementation could be:
 - Assign a User Task to an administrator
 - Send an email to an administrator
 - Create a message and drop the message into a JMS queue or topic
- If problem was with back end application, administrator will typically:
 - Leverage the exceptionInfo data to rectify application problems
 - Resubmit the process instance using data from the ProcessData to identify process instances
- If problem was with business data, administrator typically:
 - Uses ProcessData to find offending process instance in MWS Monitor
 - Edits pipeline
 - Resubmits data

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User Task to Administrator;

User Task data

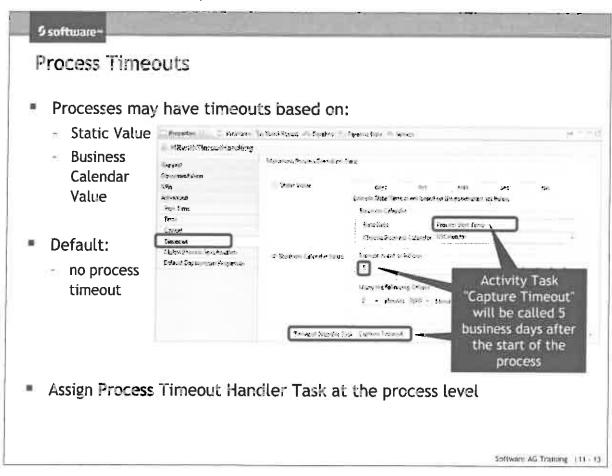
error info

contains process

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9 software= End Terminate Event within Error Handler Path End Terminate Event sets final process status to "Completed" (default) Percent Dis 24 End Terminate Event can also be configured to set a process status to "Failed" Chosen status indicated by a decorator Optional status escalation to parent Paulini- Ener Problems Build Pepor Pipaline Pineire Ps in Sevens Usage of End Terminate 📵 Periorinata addi Error Events recommended, but not mandatory If not used, then final process Schelal Integration Server Name | Default Decumentary. Process status upon termination status would be "Completed". Excelate failed process status to pare Software AG Training 111 - 12

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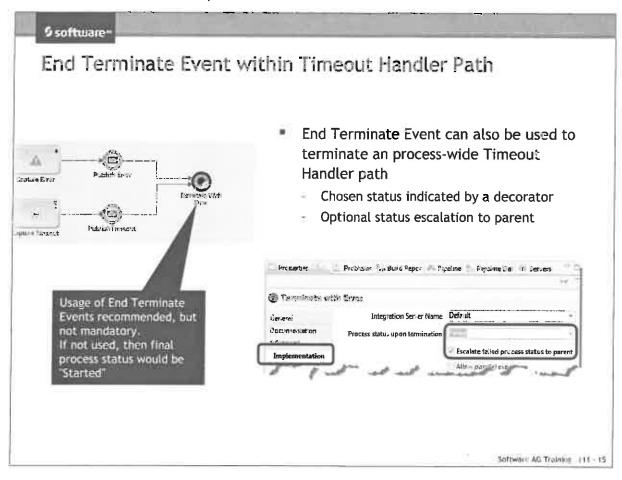


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S software-Process Timeouts - Timeout Handler Step Capture process timeouts by assigning a Process Timeout Handler Task Similar to Process Error Handler Task Assigned Task Activity decorated with \overline{ z marker Task Activity does not need incoming transitions Leverage data from the Process 46mmHP Engine to determine process state ProcessData document instance is passed in pipeline with name ProcessData Timer ut Handler Task: | Capture Timeout Select Task Activity acting as Process erficility ecu Timeout Handler Task

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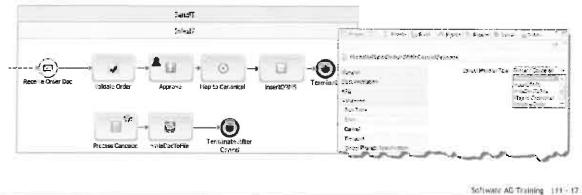
S software Change Process Timeout at Runtime Built-in Services available to manage process instance timeout Invoked by the IS Service that is configured on a Service Task Activity create: Paskage 😕 🖟 Seved Sea 🐣 ARD Table Set new timer related to a base date/time ■ 1 SmPRT pub createWithBusinessCalendar: prt 💮 prt , zdmin Same as create, but related to B.C. correlate jms createWithDate: وعا Defines fixed date/time when the timer should i timer expire · · cancel : create qet: create + ithBusines:Calendar Retrieve timestamp, when timer will expire create //ithDate get cancel: Cancel existing timestamp Software AG Training | 11 - 16

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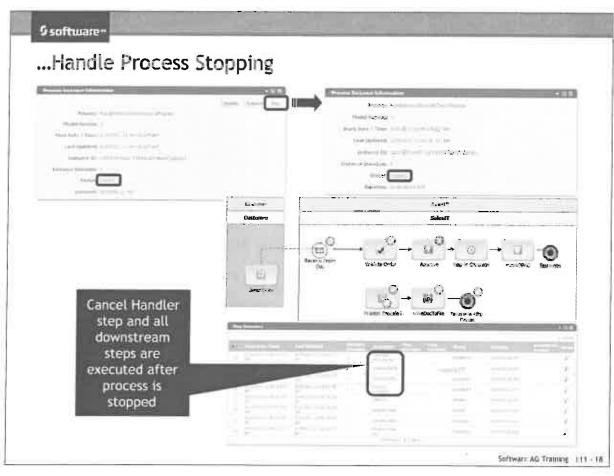
Handle Process Stopping...

- Process instances can be stopped/canceled from Process Monitor
- Cancel can be handled using an optional Cancel Handler Task
 - Enables you to execute additional logic when the process is stopped/canceled, e.g. to run cleanup logic
- Configure the Cancel Handler Task in the Cancel tab in Process Properties
 - Assigned Task Activity and all downstream steps are executed after process is stopped/canceled



Notes:

webMethods 8.2 BPM for Developers



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G software* End Terminate Event within Cancel Handler Path End Terminate Event can also be used to terminate a process-wide Cancel Publish Cancel Handler path estate Cencel Chosen status indicated by a decorator The Problems of Build Rep. Problem Ripeline Dr. of Server There Usage of End Terminate Events recommended, but 📵 Turnimete at Care ded not mandatory. Jategration Server Name Default Careal Final process status is Und-mentation Frace sis ates upon termination Canceled "Stopped" regardless of e rivers red Crimple ed the setting in an End Implementation Terminate Event. Software AG Training | 11 - 19

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9 software Change Process Status at Runtime End Terminate Event sets the final process status - {Completed, Failed, Stopped (Canceled)} The state of the same of the same of the Enter Input for 'changeProcessStatus' Another way to change the process Incidia soptional design Straig Type status at runtime is to configure a Pigme Service Task step to invoke IS service: Kir ProcessinstancelD HE Frecessiteration . ProcessModellD pub.prt.admin:changeProcessStatus in ProcessModelVe and set the Action parameter His Author SUSPELID RESUME nic Escalatefailure gst) and Permis will show up as "Stopped" in Monitor Software AG Training | 11 - 20

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More End Events		
 End Events are always Must not have an outgo No generated IS service 	ing transition	interrupting Event after Build &Upload
- End None Event	0	
- End Message Event		Terminates path.
End Signal Event		Does not affect process status.
- End Error Event	③	J
- End Terminate Event	000	Terminates the process and affects the process status.
		Software AG Training 111-21
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9 software" Step Exception Handling - Overview Step exception handling allows finer grained exception handling as compared to setting Error, Timeout and Cancel Handler Tasks at the process level Step Exception handling could be implemented by: Boundary Events with outgoing transitions (BPMN compliant) Boundary Error Events Boundary Timeout Events Becutize time > 45 minutes Special conditional transitions (webMethods extensions to BPMN) Join Timeout Unsatisfied Join "huat siled foin Step Iterations Exceeded Software AG Training | | 11 - 22 Notes: _____

9 software-**Boundary Error Events** Boundary Error Events enable you to catch errors that occur in a Task Activity, Call Activity or Subprocess Activity Can be added from Palette or from Activities context menu Properties . Problems of Engla Seport - Specimo Prop. France - Calabat Report (a) Muin Change Error Lotte | Fulls Check Erro General Cocumertane + 9 - 11 Check Reta **Metification** Name: Rule Check Error 5.ep ____ 724 Step !!: \$226 Type: Intermediate Sounds - Interrupting Error Handle Error Boundary Error Events... ... are always interrupting* ...may have its own label, only shown as tool tip In case of Error Event: Modeled outgoing Event transition(s) used Activity execution is stopped and it's outgoing transition(s) are not used

Interrupting Boundary Events of type Error NOT implemented for Manual Tasks and Subprocesses; exceptional behavior for Subprocesses.

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5 software" Non-Interrupting Boundary Error Events at Subprocesses In webMethods BPMS, if dei Pierrozeusing Boundary Error Events at a Subprocess are always non-interrupting* Check Order Validation Double-Check A vailability Order Merge Subprocess behavior when a ist diffication Boundary Error Event is triggered: Persist Currenc; 1. Path in the Subprocess that caused the error is terminated Handle 2. All other paths in the sub-process continue as normal Exception 3. Each outgoing transition from the Boundary Error Event will be executed 4. Outbound transitions from the subprocess are taken as normal Boundary Error Event behavior is somehow "hybrid" * BPMN specification only knows interrupting Boundary Error Events at a Subprocess Activity. They are not implemented in webMethods BPMS.

webMethods BPMS offers non-interrupting Boundary Error Event at a Subprocess Activity instead (Extension to the BPMN specification).

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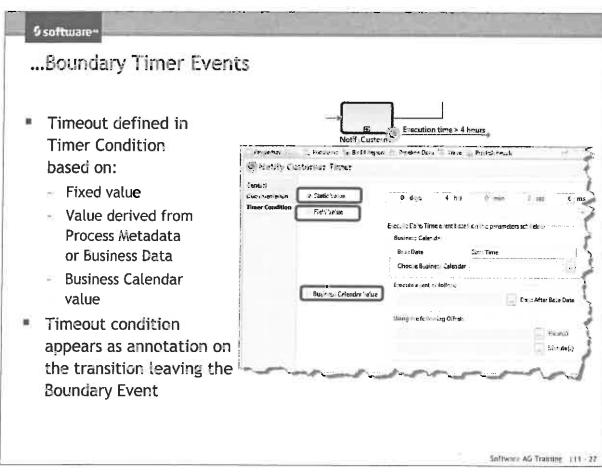
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9 software-Boundary Error Event at Subprocess -"Restore starting pipeline" property CHECKED Omes Proprocessing Non-interrupting Boundary Error Events at a Subprocess has an option to DoubleCheck A mist lite "Restore starting pipeline" unchecked: Error pipeline passed on Handle Exception transition leaving the Event same data checked Transition Pipeline data rolled back to how it does not have looked before entering the subprocess any default annotation and passed on transition leaving the Event or decorator There is no automatic rollback or - Restore stoming province compensating transactions This will have to be implemented in the Ferri Style target step of the outgoing Event transition Software AG Training 111 - 25

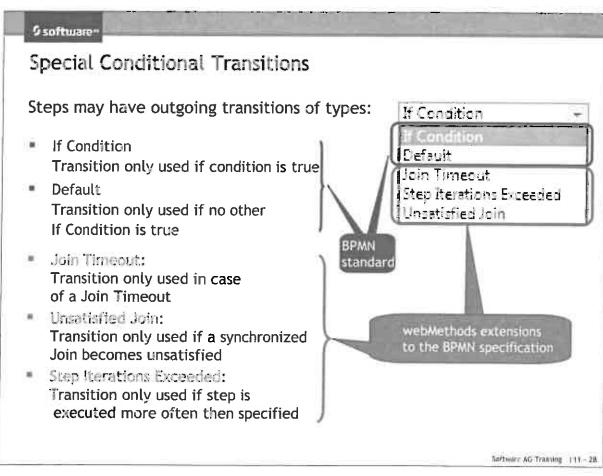
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9 software-Boundary Timer Events... Boundary Timer Events enable you to catch timeouts that occur in an Task Activity, Call Activity or Subprocess Activity Can be added from Palette or from Activities context menu Perspective Franchis , Evant Season Doy of the Cable - Timbe , Change Peault A ROUTE CON GOST TOPIN A.c. Boundar Timer F. en. to interrupt ste General Process Orde Locument to Lat of Motify Customer Timer Track Condition Funt Tyle Elecution time > 4 hours Netr Custom Boundary Timer Events... E ception ...can be interrupting or non-interrupting* ...may have its own label, only shown as tool tip Behavior of Boundary Timer Event: Modeled outgoing Event transition(s) used Interrupting: Activity execution is stopped and it's outgoing transition(s) are NOT used Non-interrupting: Activity execution continues and it's outgoing transition(s) ARE used after the Activity completes successfully * interrupting: available at Service Tasks, Abstract Tasks, Send/Receive Tasks; non-interrupting: available at Subprocesses, Call Activities, Rules Tasks Software AG Training | 11 - 26

				
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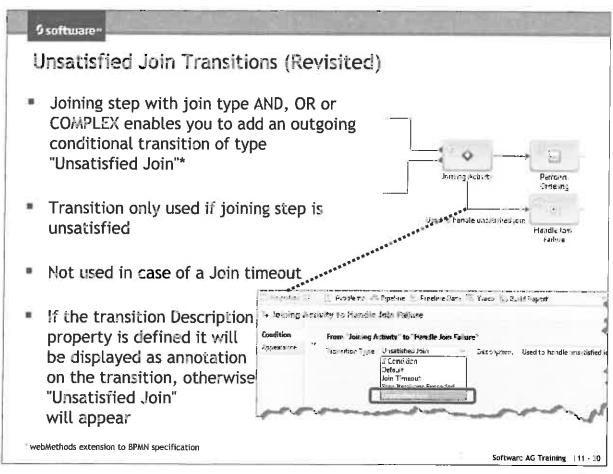
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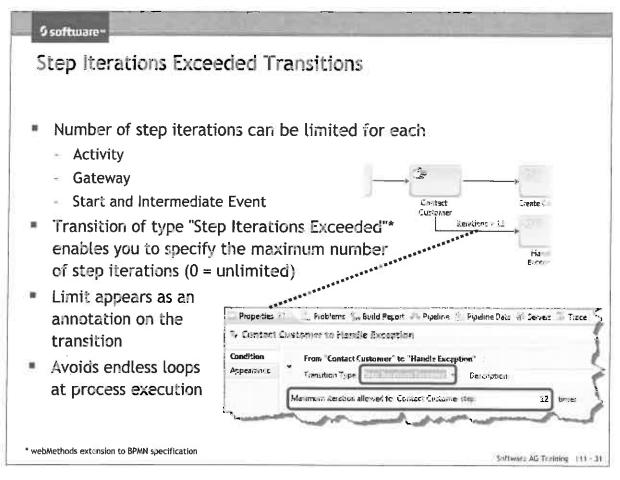
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5 software* Join Timeout Transitions (Revisited) If a joining step has a configured Join Timeout this enables you to add an outgoing conditional transition of type "Join Timeout"* Joining Activity Perform Ordenna Only available for joining Activities, long gad trae - 3 bours 30 marches Events and Complex Gateways with Handle foin Turnerak Join types AND or COMPLEX Proportion 11 Problems . P.palme Pipalme Data Trace in Build Report Tirneout condition To Joining Activity to Hendle Join Timeout displayed as Condition From "Joining Activity" to "Handle Join Tensorit" Appealance annotation Transition Type I Join Timenut Cercoptenar User to handle join timeout Helps to create robust processes * webMethods extension to BPMN specification Software AG Training (11 - 29

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Enhanced Pipeline Data in Case of Exceptional Transitions

- In case of
 - triggered Boundary Error/Timeout Events with outgoing transitions
 - used special conditional transitions of type Join Timeout, Unsatisfied Join, or Step Iterations exceeded

target step wants to know:

- Why did I get here?
- Where did I come from?
- In these cases pipeline contains a document of type pub.prt.ExceptionTransitionInfo
- Helps to investigate the exception



Software AG Training | | 11 - 32

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G software" Retry IS Service Invocation Service Task Activities enable you to configure the re-invocation of an - IS Service - IS Web service Order validation System Buldation Parameter Step Retry Count specifies number of times bigues Cotque the Process Engine will retry Traismeis Elicoamentation the invocation (Default: 0) b_i mBalicSupportuitifa inspect inelterns Stare. Only re-invoked when a Integration Server Name | Defout Longer Follo service returns an Generated Service Name ISRuntimeException error Retry Crimt : 4 Any other exception will Retrainterval 60000 cause the step to fail Parameter Step Retry Interval specifies number of milliseconds the Process Engine will wait between retry attempts (Default: 60000 ms) Software AG Training | 111 - 33 Notes: -

webMethods 8.2 BPM for Developers

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Objectives

- At the end of this section you will be able to
 - Understand the webMethods Business Rules architecture in a webMethods environment
 - Create and test simple Business Rules in Designer
 - Deploy Business Rules to an Integration Server
 - Invoke Business Rules from a process Rule Task Activity
 - Deploy a Rules Management Console (RMC) to MWS
 - Perform instant Business Rule modifications using an RMC

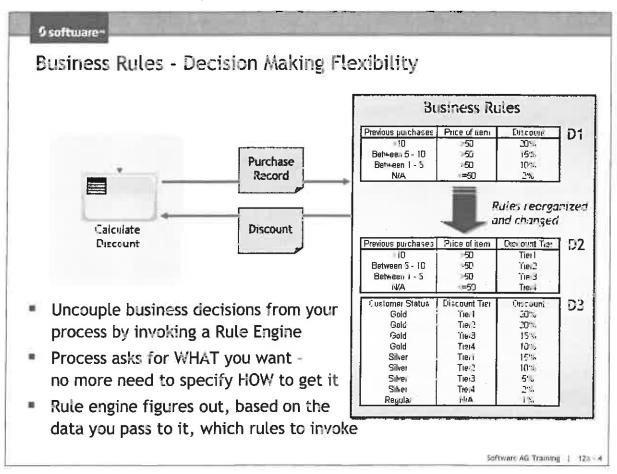
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9 software= Flexible Business Demands Business computations often rely on complex decision chains Decisions may change because of altered business demands and conditions Using IS services to implement these business decisions results in business logic hardcoded in service(s) (tight coupling to process activity) IT developer is required any time business logic Calculate service(s) has to change Discount rule changes require reprogramming service(s) and sometimes reverse engineering is required to figure out existing rule possible development / deployment delays due to resource availability issues re-testing and re-deployment delays discountCalculation less flexibility for the business Software AG Training 1 12a - 3

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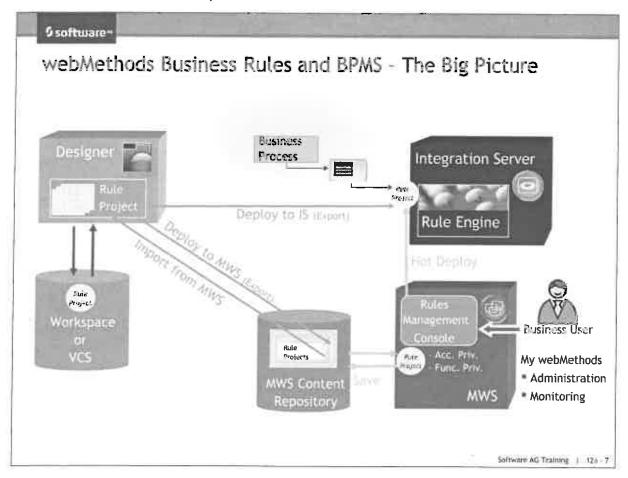
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G software-Rules in webMethods - Don't get Confused this chapter see chapter 12b Business Rules Implemented by webMethods Business Rules and/or Blaze Business Rules webMethods Business Rules: Created in a webMethods Business Rules Project in Designer Deployed to an IS CAF Rules used to assign start pages, shells and skins to groups in MWS Rule of Thumb Optimize Rules BAM Asset. Abnormal KPI Reading Trading Networks Processing Rules Software AG Training | 12a+5

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9 software* Business Process Invokes webMethods Business Rules webMethods Business Rules can HITTE be executed from a Business Process by a Rule Task Activity of type webMethods Business Rule Activity invokes single Decision Table Lug Pai entire Rule Set contained in a Rule Project . Jedlens Fig. Categorie Discovere Type Rule Rule project must be deployed בשקש פשקש Rule T. pe PROPERTY. 1 1.300 ethods Business Ruis Blaze Ruis to a Rule Engine in an Securiena ton Integration Server *Pis Robe Sist in Electron Emile Adja to Deci. ion Table Name Determinek scous Lagrar Heids Decision entities can be Rafe Project I Jame developed, tested and deployed Demoi deProject in Designer using Rules Development perspective Software AG Training | 12a - 6

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webMethods Business Rules

Some Definitions:

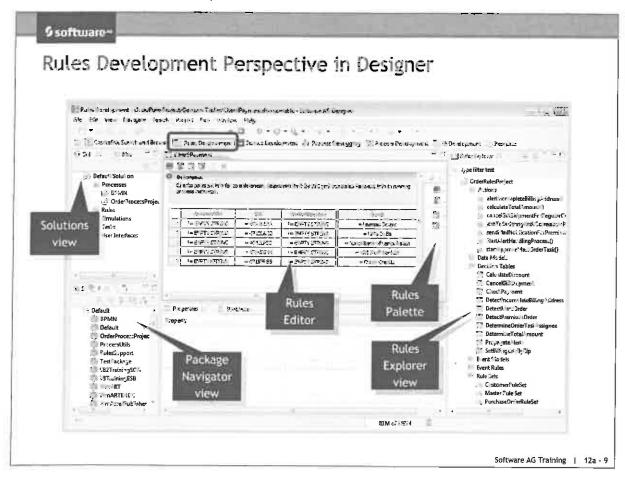
- Rule is a like an IF-THEN statement contained in webMethods Business Rules decision entity, e.g. a Decision Table.
- If a Rule "fires", defined assignment(s) and/or action(s) are performed.
- A Decision Table contains one or multiple rules of the same structure and belongs to a Rule
- Decision entities within one project can be grouped to a Rule Set.
- Decision entities have named parameters based on Data Models; Data Models are derived from IS documents.
- Decision Entities or Rule Sets can be tested within Designer or executed by a Rule Engine hosted in an Integration Server.

Some Features:

- Tight integration between webMethods Business Rules and webMethods BPMS
- Common IS document structures used in both products; fully integrated into Designer
- Bi-directional interoperability:
 - Decision entities or Rule Sets can be invoked from a Business Process.
 - Actions in a Rule can be configured to start, cancel, suspend or resume processes
 - Actions in Rule can be configured to queue a User Task
 - User Tasks can be configured to invoke webMethods Business Rules decision entities to determine User Task assignee(s)

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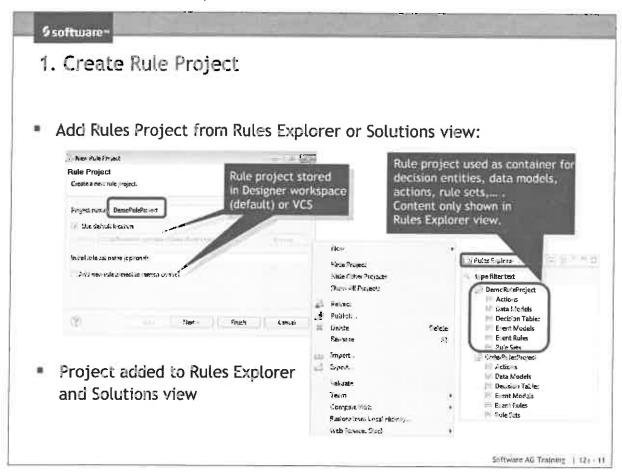


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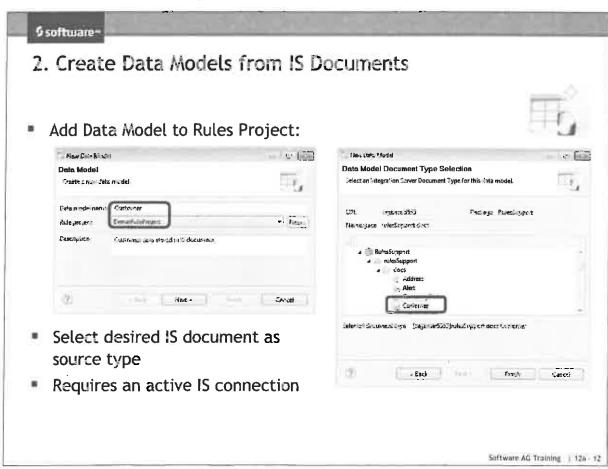
Create a Decision Entity 1. Create Rule project 2. Create Data Models from IS documents 3. Create Decision Entity of type Decision Table a. Name and description b. Parameters with type and direction c. Input parameter elements for conditions d. Output parameter elements for results e. Optional: Result actions f. Add Rules 4. Save and test in Designer

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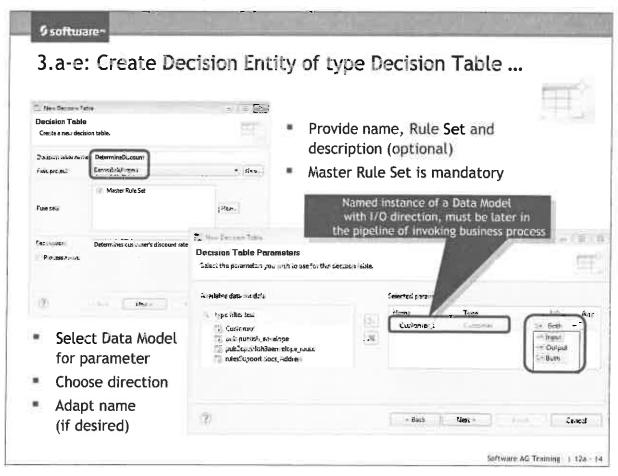
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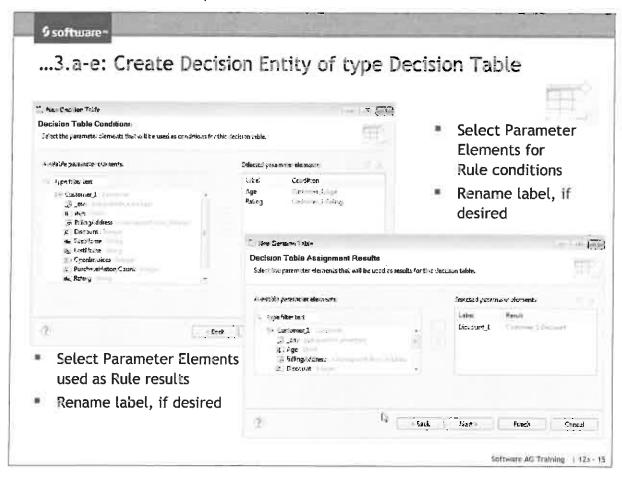
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5 software Resulting Data Model Data Model added to Rules Explorer view (NOT Solutions view) [] Polen Explain Embedded doctypes generated as type filter tert ▲ ∴ DemoRuleProject additional Data Models on the fly Actions Data Modelo . Customer Origin is kept r er. & Age: in Data Model EllingAddress: Digiata Delate 32) Discount Recame Mr. First Name: Sync Dela Model nid Lasti Jame: Rename, if desired ☑ OpenIn pices: Import. [7] PurchaseHistoryCount 🛳 Pating E port Shipping-ridiers: Sync Data Model enables pub publish_en elc pe Pebug 45 publepublish3aenvelope_route you to synchronize the Profile An HuierSupport door_Admess underlying IS document Decision Tables Validate Event illindels Team type with the data model E-ent Pules hen are with Pule Sets Show unjundences Show Palarence. Software AG Training | 12a - 13

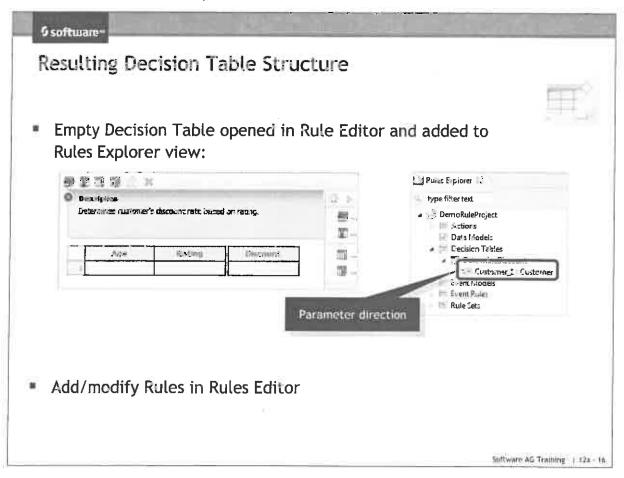
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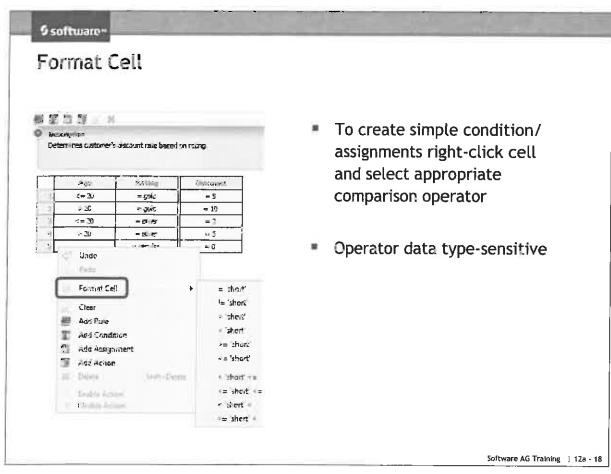


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3f. Adding R	ules to Decision Table -	Rules Editor and Palette
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Clear selected elements	Age: Rating Di	Assignment - Add a new Assignment
	Rules Editor	Palette Action - Add a new Action
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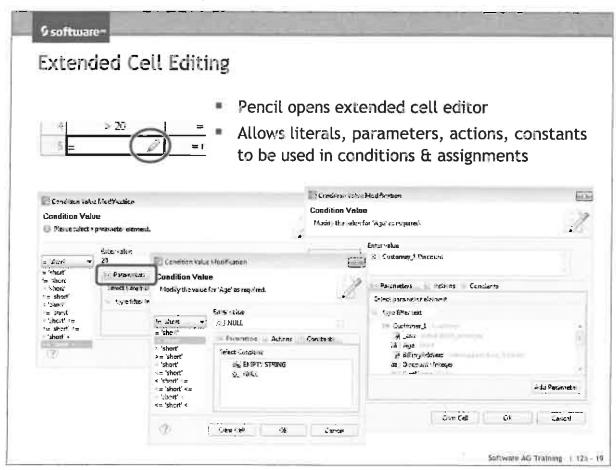
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webMethods 8.2 BPM for Developers



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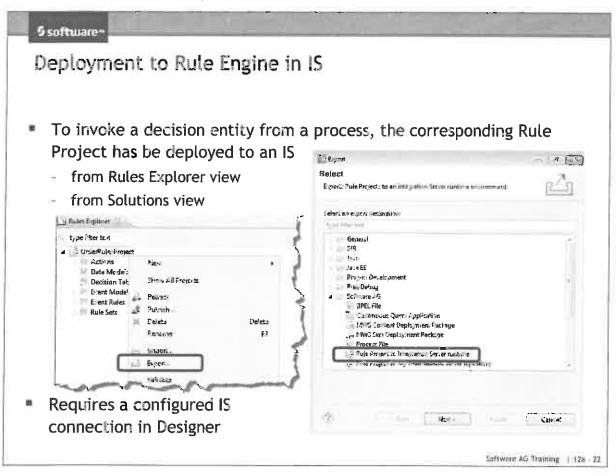
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5 software -4. Save and Test Decision Table in Designer... Saved Decision Entities like Decision Tables can be tested standalone in Designer - no IS connection required Ruie. E-plerer type filter text DemoRuleProject Actions Data Model: Decision Tables 📅 Determine Descript Open I Celete Impert Espert. Pun As 1 Pun Geritien Table Run Centiquization If you have unsaved changes, you will be prompted to save them Software AG Training | 12a - 20

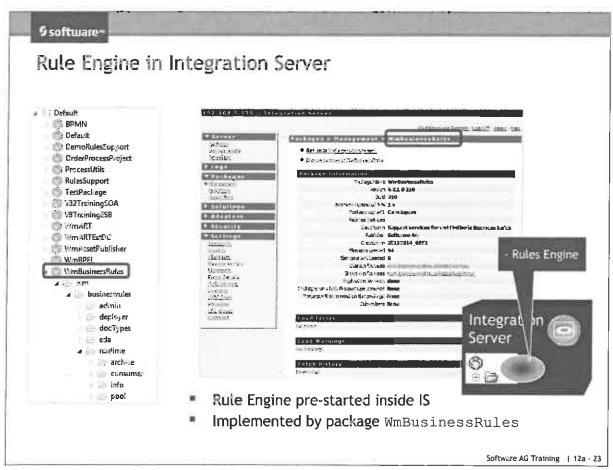
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5 software= ...4. Save and Test Decision Table in Designer Provide inputs on appearing panel. Check "Include empty values for String Types" if necessary. Enter Input for 'DetermineDiscount' Results are shown in Results view: Sales Carana 1 the Tri Places shr Laciffarme Properties Problems -- Secreta Famili g la* Dictrim Price efficience Operating Chatcher_1 77 Discourt - Shipmay Aliche # PurchaseHistoryCornt a , Age ac First*1=me Paul fac Lastitame Newnian Use Save/Load Inputs for repeating tests. Software AG Training | 12a - 21

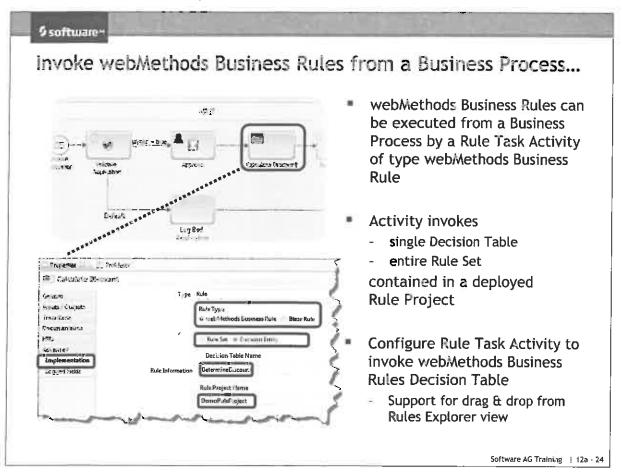
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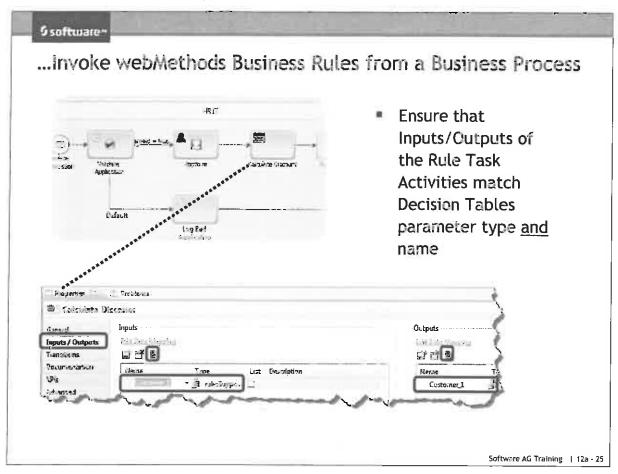
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Rules Management Console (RMC)

Intended for Business Users to perform dynamic rule modifications in My webMethods



Requires for an additional deployment from Designer

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Prerequisites for using the RMC - Overview

- MWS security setup for target Rule Projects folder in MWS Content Repository
- 2. MWS security setup for accessing the RMC and the Rule Projects in My WebMethods
- 3. Configure MWS Repository Connection in Designer Preferences
- 4. Deployment of Rule Project from Designer to MWS Content Repository
- For more details refer to the document
 "Working with Business Rules in My webMethods"



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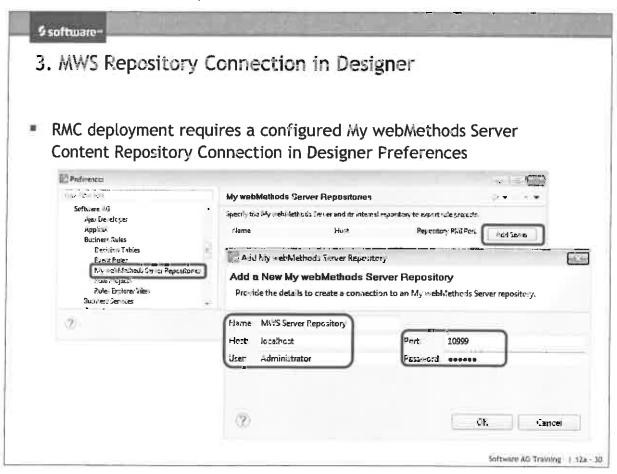
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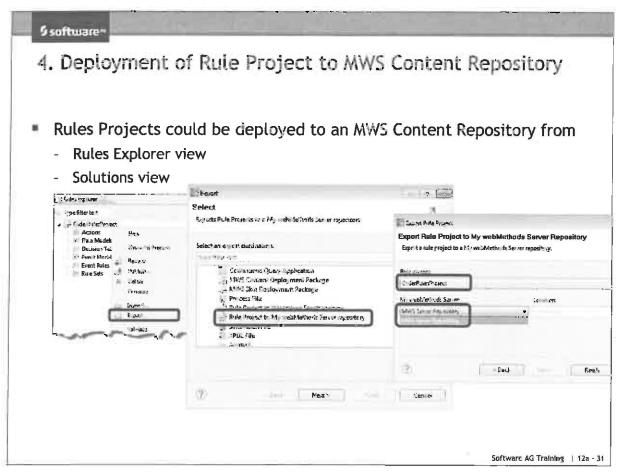
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2. MWS Security Setup for Accessing the RMC Grant Permissions for accessing the RMC and the Rule Projects in the RMC within My webMethods for Business Rule users

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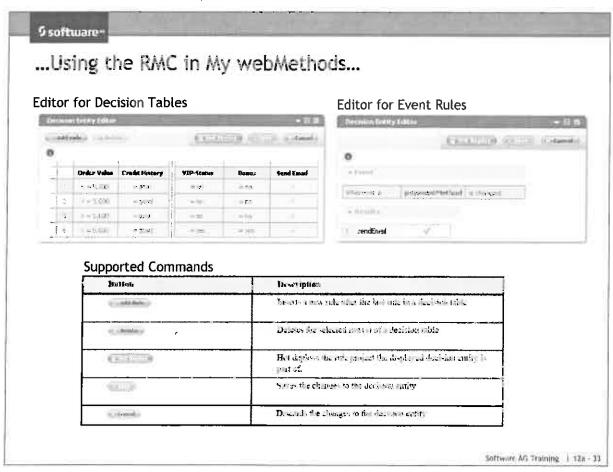


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S software* Using the RMC in My webMethods... Business Rules User can logon to Rule Management Console Have to click "Update Entries in Navigation Pane" first Deployed Rule projects become visible in RMC i vyrk W. Vie Se de Sudayana I residence P come "#4" 370' a ty ender - a % ! # . "b2, - Registry - Com within in Fig. S MANNE H brooks (#55 Hi doctawdaw in an

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- ...Using the RMC in My webMethods
- Save: Persists changes to Content Repository in MWS



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- Sync with Designer workspace/VCS requires for additional import from Designer
- Hot Deploy: Syncs with Rule Project from RMC to one or multiple IS
 - IS connections have to be pre-configured for RMC:



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More Information

- webMethods Business Rules:
 More Information at class webMethods 8.2 Business Rules
- Blaze:

A Blaze Business Rules tutorial available at the Software AG Developer Community:

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http://communities.softwareag.com/ecosystem/communities/public/Developer/webmethods/products/bpm_suite/tutorials/blazebusiness/index.html

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webMethods Business Rules vs. Blaze Business Rules

- webMethods BPMS supports webMethods Business Rules and FICO Blaze Business Rules.
- webMethods Business Rules was designed complement webMethods
 BPMS to fully support use cases that webMethods BPMS requires.
- webMethods Business Rules is not intended to have all of a Business Rules Management System (BRMS) capabilities that FICO offers.

webMethods Business Rules	FICO Blaze Business Rules
Yes. BPMS processes can be started, stopped, suspended, failed, resumed, and canceled. Manual decisions (tasks) are also supported.	Custom coding required
IS services can be invoked using Rule actions.	Custom coding required
Rules are designed and tested in Designer. Rule decision tables can be dragged and dropped into business processes.	No
	Yes. BPMS processes can be started, stopped, suspended, failed, resumed, and canceled. Manual decisions (tasks) are also supported. IS services can be invoked using Rule actions. Rules are designed and tested in Designer. Rule decision tables can be dragged and dropped into business

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