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User	Task Cus	tomizat	ion and A	Assignmen	nts	
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Objectives

- At the end of this section, you will be able to
 - Perform basic customization of a User Task UI using controls
 - Add validations to a User Task UI
 - Implement simple User Task Actions using action flows
 - Configure User Task Events
 - Assign User Tasks to defined MWS users, groups, and roles
 - Configure User Task expiration

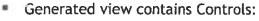
Software AG Training | 9-2

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Task User Interfaces

- Remember: When you drag and drop Business Data from the Bindings view onto the Data View portlet, UI controls will automatically be generated.
 - This will give you a jump start on development.
 - You can customize the UI further by tweaking the control properties and/or layout



- UI components that present and capture data
- found under Control in Palette view



- Designer provides rich CAF tools for code-less UI development:
 - Visual drag and drop of Controls
 - Properties
 - Wizards
 - *



Software AG Training | 9-3

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Controls, Properties and Managed Beans

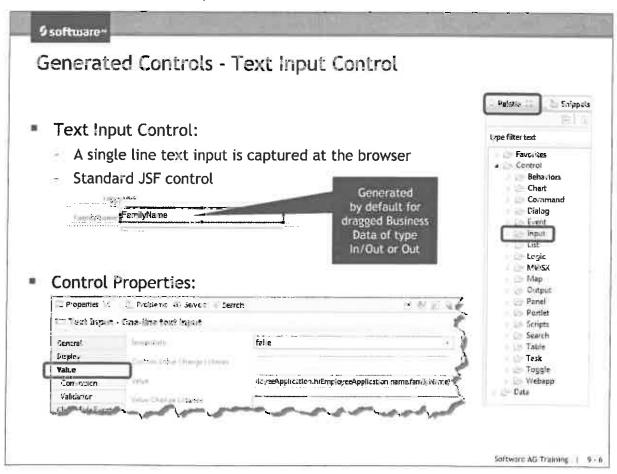
- Components on a User Task/CAF project view are rendered using controls.
- Each control has a set of properties:
 - IsVisible, Directionality, Disabled, ...
- Most controls are standard JSF controls, some are webMethods proprietary offering additional functionality over the JSF standard controls
 - Check documentation for details
- Each control can be linked to a Managed Bean component.
 - A Managed Bean is implemented as a Java class
- Managed Beans can be:
 - Generated
 - Developed using wizards
 - Coded by hand
- Software AG provides samples for many JSF/CAF control types that may be imported into Designer
 - Examples include Labels, Buttons, Icons, and Links

Software AG Training | 9 - 4

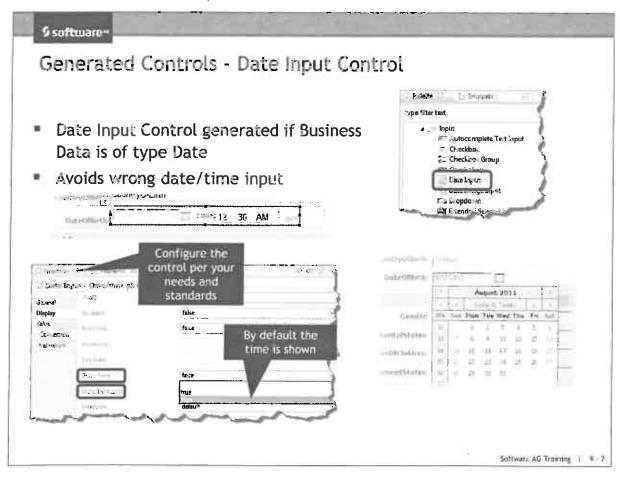
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9 software-Generated Controls - Form Control Generated User Task default view contains Form control Standard JSF control Form contains: - UI Controls related • - Sulube Pinniget of Getting to dragged and dropped **Business Data** View Root a . C. Form of an transfernic Command buttons for 💓 Formattad Messagus ■ Propert: Sub-Group (id: taukDatafubGroup) Label □ Fropert; Group (id: p. spertyGroup) task management and interaction with Task Engine Property Group (it's property Group). (roperty Group (it's property Group.)) Property Croup (it's property Group). Form may have any other type of control Property Group (in) propertyGroup 4 as a child. View layout from: 🗻 Submit Group Submit Cancel Design canvas Previous Outline view (Nen ... | Comme id Button ... | One 'i' Triggle Button i'd toggleAssigne (Prin Form (id. assign TuForm) Software AG Training | 9-5

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Generated Controls - Command Contro		
Generated User Task default view contains various in a Submit Group: Explode this control to see the buttons The second secon	Form fick track/i Formatical N □ Formatical N □ Fropert, Sul □ Circ Viv, To	ewForm) (essages -Gircup (id. teaskDataSubGrr u)) ggla Futton rd (id. cptionalPanel)
■ Submit Group (id=null) Command Controls interact with the server,	a ≀a) Cancel _2 Com a Cir Previous	Tominan Seeker mand Button Command Button
invoking preconfigured User Task actions	_/ Cornman	: Command Lutton id Button Togale Button (id: togaleAssi "ned
 Generated types of Command Controls: Command Button: For synchronously invoking an action or submitting a form to the server Async Command Button: For doing the same, but asynchronously with AJAX 	Control Beha iors Chart Command Using Command Beton Async Command Icon Async Command Link Async Hidden Command Command Butter Command Link Command Link Disjoint Foun Form Hidden Command	Top are the same of the same o
xception: Button "Assign to Users" Implemented by a One Way Toggle Control	5-64	wase AG Training 9 - 1

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User Task UI Customization

- Using Designer and UI Development perspective, generated User Task UIs can be customized
 - as per corporate UI design requirements, standards and best practices
 - and be made very appealing to the UI users



- Customization possibilities:
 - Replace (generated) basic controls by more intuitive ones
 - Add more controls
 - Remove controls representing business data to be suppressed
 - Adjust page layout, color, background,...
 - Add validations using Validators
 -

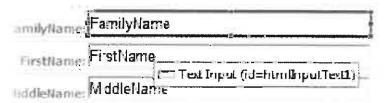
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Changing a Control Type...

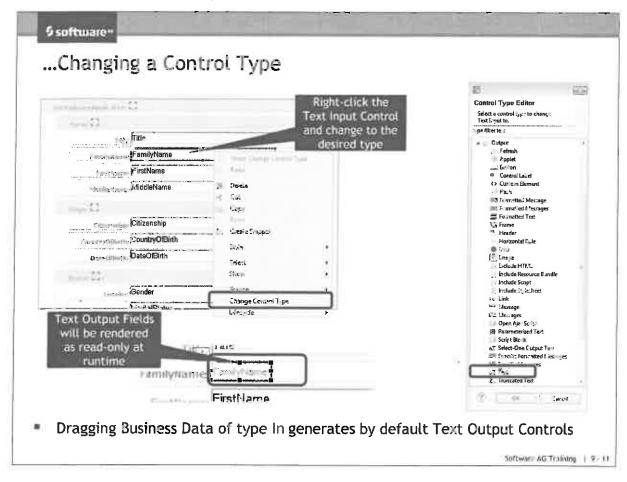
Dragging Business Data of type In/Out or Out onto a User Task view generates by default Text Input Controls bound to the task data elements:



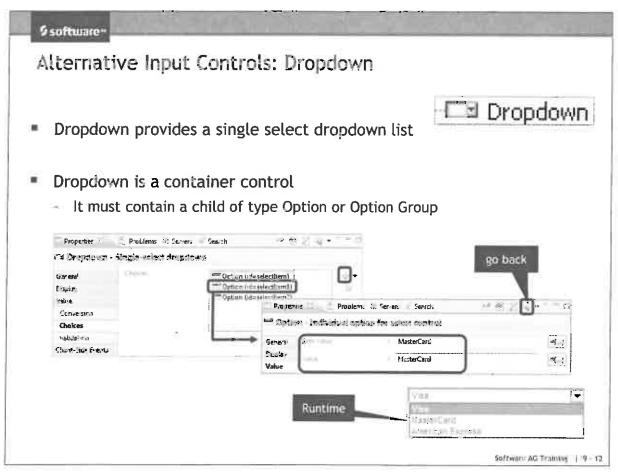
- Context menu enables you to change the control type (e.g. from Text Input to Text Output)
- Alternatively, controls may be configured by hand, dragging them from the Palette and binding them to business data from their properties

Software AG Training | 9 - 10

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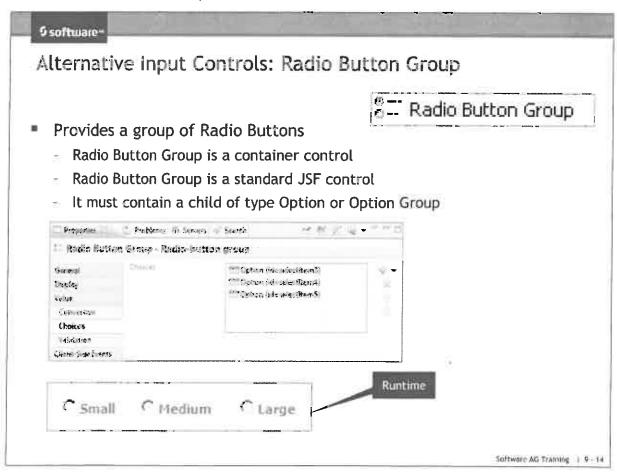
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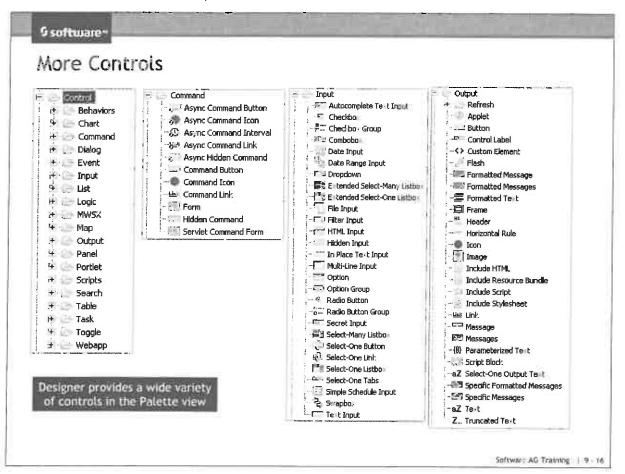
5 software-Alternative Input Controls: Checkbox Group 🖅 Checkbox Group Checkbox Group is a container control - A standard JSF control Selection option is set by an Option or an Option Group control child Add an Option Control into the Checkbox group container to create a Checkbox Checkbox Group V1641 added to view PlasterCard Add Options to MINING AND THE the Checkbox Progresser - Problems Femals Search Runtime Group والرواب v7^t≥€ Visa *** Gaillan - Individual laurious for subset control. HasterCard #(____ Jen en! American Express THE PERSON Arr edica i E pres: - 4 Software AG Training | 9 - 13

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webMethods 8.2 BPM for Developers S software* Alternative Command Controls: Command Link, -Icon Command Button Command Button makes a synchronous call to the server standard JSF control must be enclosed within a Form Not all other control types can include other type of control as child would make sense! would be used as the button label Examples: Text output control, image output control Command Link and Command Icon Command Icon similar to the Command Button standard JSF controls ··Link Command Link must be enclosed within a Form can include other type of control as child would be used as the label, after the value property Examples: Text output control Softwar: AG Truining | 9 - 15 Notes: _____



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webMethods 8.2 BPM for Developers S software* Add Validations Validation of user input in a User Task UI can be performed in two places: **Browser** Data can be validated without the form within the User Task UI Fig. Credit Card Ch Southe Parige being submitted D Segail Client computer resource usage: JavaScript executing in the y Sand I I SiertiegEg browser consumes memory as well as CPU of the client machine Server side on Ruses .5 One of *: Reduces the browser resource usage on the client machine : Requires form within the User Task UI to be submitted before data is validated webMethods offers various types of validation to be applied to input controls Prolina Sever some allow Browser and Tiselingus dan bis instantingus Server-side validation, some Server-side only : **::** "## some are JSF standard, some are webMethods

True If client side validation should be attempted (if a laliable) for the control Software AG Training | 9 - 17

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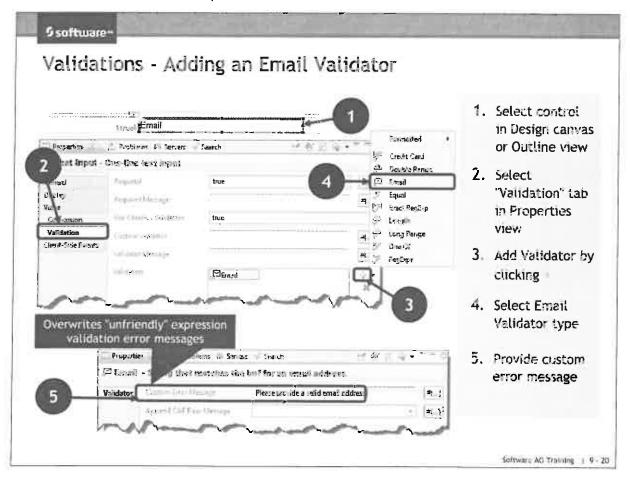
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9 software -Validations using Validators... Formattes Credit Card Email Validator: Double Parige - Checks that the text matches the BNF (Bakus-Naur Form) Email Exp:al Does not test the email account I : 1 E act RegE p Validation at Server only, webMethods proprietary Length Long Range 5 One Of Credit Card Validator: F.egE pr Checks that the input String of numbers For testing your credit card matches one of the card number styles for: validations: Master Cord MasterCard 5105105105105100 Visa · VISA 411111111111111111 **American Express** American Express Discover 378282246310005 • <u>Discover</u> 6011111111111117 Does not invoke any back end application to test Validation at Server only, webMethods proprietary Softwar AG Training | 4 - 18

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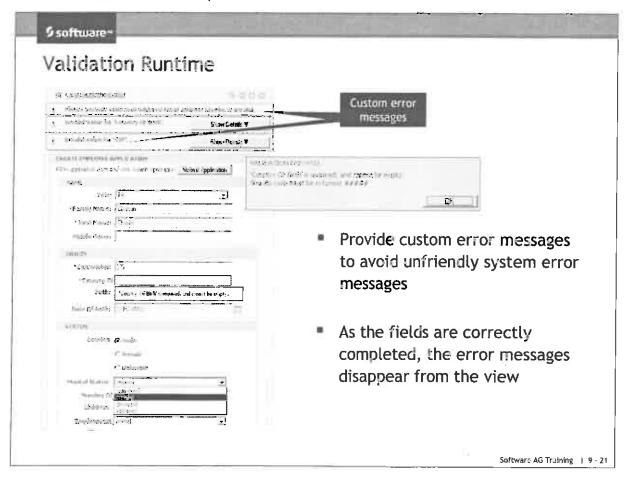
S software-... Validations using Validators Regular Expression Validator: - Data kept in controls can be validated based on regular expressions Can be used for validation of: Strings Formatted **Numbers** Sedit Card Couble Pange **Phone Numbers Booleans** , Equal Email addresses Exact PegExp 🕒 Length Dates 5 Long Range Validation at Server-only, webMethods proprietary . One Of Many more... Software AG Training | 9 - 19 Notes: ______

webMethods 8.2 BPM for Developers



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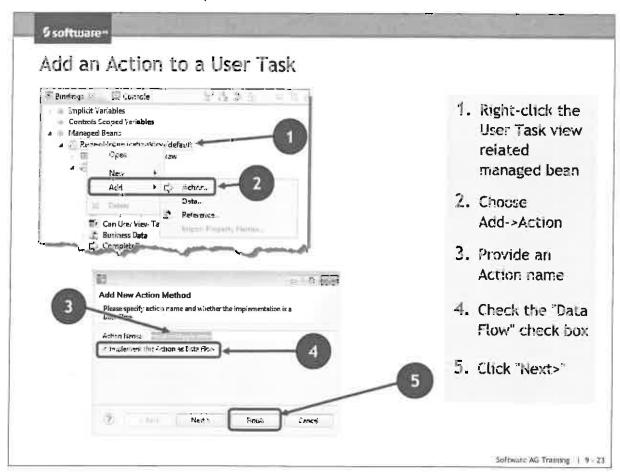
webMethods 8.2 BPM for Developers



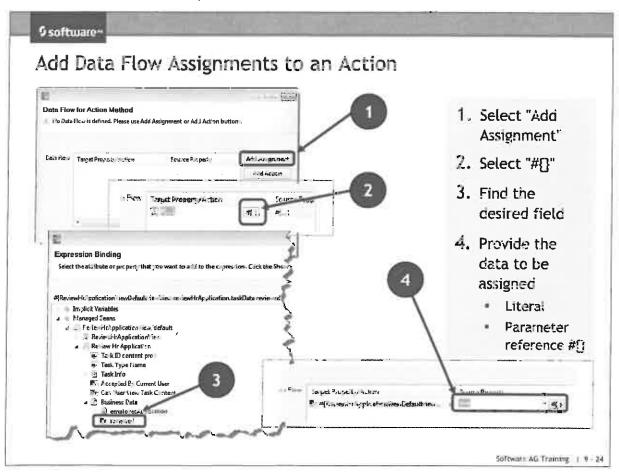
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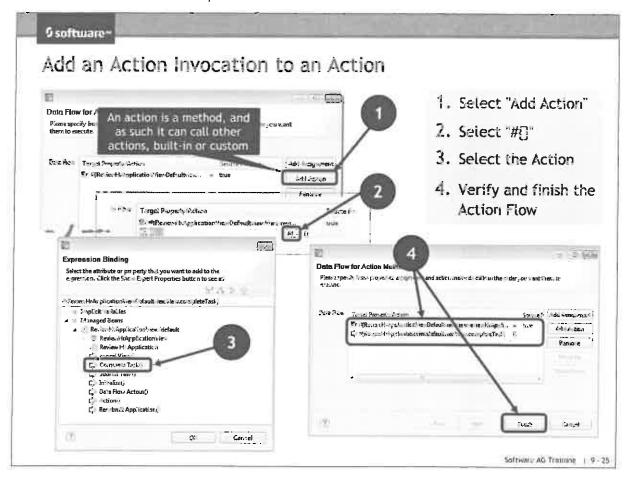
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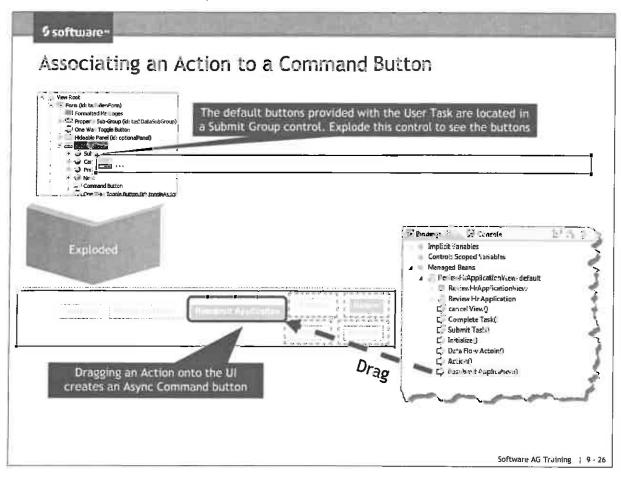
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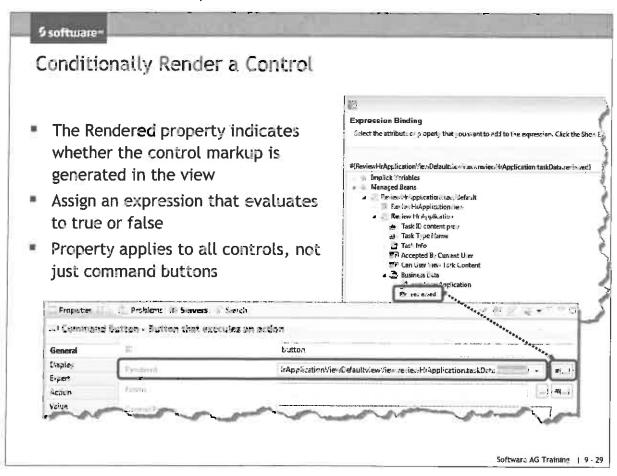
5 software Convert Async Command Button to Sync Central Type Editor Select a control type to change As mc Command Button to (Cat. At the Command less. 3. (a) rec Command later of the first Command Link Cristi Somethidden Command Create Into te 12,16 [elect " | Fc. n OF Control Change Ionic: Type Asynchronous actions are useful for interacting with the server without changing views If the portlet needs to change to a different view, a synchronous request may be preferable, since the browser will need to render a new page Software AG Training | 9-27

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S software-Customize Task Management Command Controls on Task U! Generated Task Data View portlet provides default buttons for manipulating a User Task at runtime: Accept: Locks the User Task, allowing Accept Complete Release Submit Return updates only by the accepting user Updates User Task data, User Task state is unchanged Complete: Completes the User Task, returning execution control back to the process and returning the browser to the Task List Management page Release: Releases the user lock, allowing another user to accept it subsequently; undoes former Accept - Return: Does not affect the User Task, returns the browser to the Task List Management page The UI developer can add, modify and/or remove buttons

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Softwai'r AG Training | 9 - 28

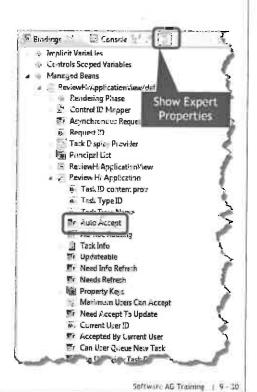


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Advanced User Task Properties

- Bindings view offers advanced boolean properties to tailor runtime behavior of a User Task
- Examples:
 - AutoAccept:
 Allows a user to accept a User Task just by clicking on the task link
 - Can User Cancel Task:
 Enables/disables User Task canceling
- Prerequisite: Enable "Show Expert Properties"



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User Task Events

- User Task Events provide dynamic policies that are evaluated on User Task instances in a certain state within the Task Engine
 - Events do not affect the Process Engine
 - Events may affect User Task state and Business Data
- User Task Events enable Task Engine to execute business logic:
 - Task may intelligently transition through states based on configured logic contained entirely in the task definition
 - Task events may call out to external services, but usually they will operate locally on task state and data



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User Task Event Components

- User Task Events are defined by:
 - 1. General Information
 - 2. Event Type (with optional extra conditions)
 - 3. Event Actions
- Configure User Task Events using Events tab in Task Editor



Software AG Training | 9 - 32

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1. General Information User Task Event's General Information: Event Name Event Description Task Control Set General Information Event Name CustomidPriority This User Task Event will set the CustomiD and the Priority of the User Task Task Control Set

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2. Event Types

- Event Type specifies the condition under which the Event should fire
- Select from pre-defined Event Types:
 - Accepted
 - Assigned
 - Canceled
 - Completed
 - Delegated
 - Queued
 - Re-assigned
 - Resumed
 - Suspended
 - Task Deleted
 - Task Updated

- Name Updated
- Description Updated

Long Type

Event Type: Queues
Accepted
Advanced

Select task ellent and define its configuration if an

Extra couliff As igned
Business Data Update!
Canceled

Comment ad det Comment Deleted Comment Updated

Control Updated
Custom is Date Force

- Comment Added
- Comment Deleted
- Comment Updated
- Priority Updated
- Business Data Updated
- Custom ID Updated

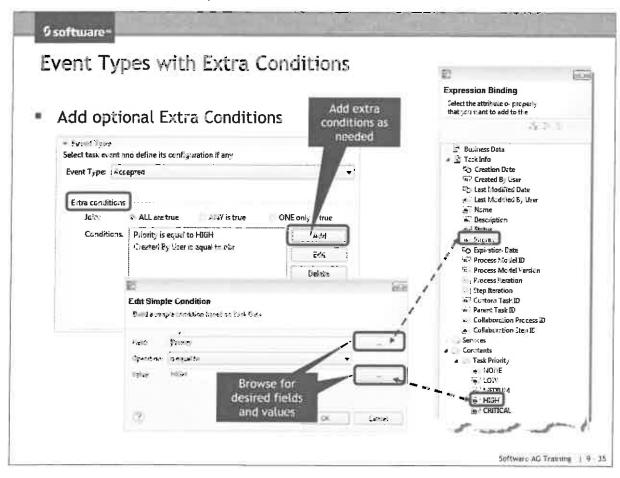
- Date/Time Event
- Expiration Date Reached
- Expiration Date Updated
- On Error
- Filter Inbox Accepted Tasks

Provides all Event Types listed below from drop-down

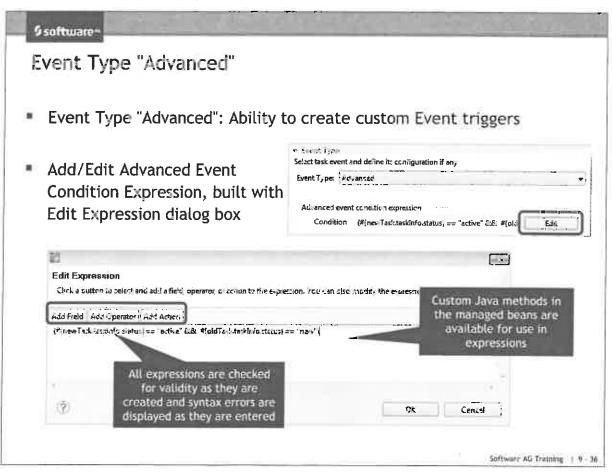
- Filter Inbox- Custom Filter
- Filter Inbox- User Activity
- Advanced

Software AG Training | 9 - 34

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Useful User Task State Fields...

- User Task State fields can be referenced from:
 - Simple Extra conditions
 - Advanced Event Condition Expression
 -

Selection of Task State fields supported by Browse functionality in:

- Simple Condition dialog box
- Edit Expression dialog box

- Useful User Task State Fields:
 - SimpleTask ID:

Read-only string field containing the ID of the User Task instance

Custom Task ID:

Searchable and indexed string available for use as a business identifier of a User Task

Status:

String field containing the User Task status (NEW, ACTIVE, COMPLETED, ERROR, CANCELLED, or EXPIRED) -

Priority:

String available for specifying the User Task priority (CRITICAL, HIGH, MEDIUM, LOW, or NONE)

Software AG Training 1 9 - 37

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... Useful User Task State Fields

- Useful User Task State Fields (cont.):
 - Accepted By Current User:
 Boolean indicating if the current user is in the accepted list
 - Accepted By User List:
 String list of users that have accepted the User Task
 - Assigned To User List:
 String list of user and role assignees
 - Expiration Date:
 Time stamp (java.util.Date) specifying when a Use Task will expire
 - Error Code: ,
 String error code useful when state is "Error"
 - Error Message:
 String error message useful when state is "Error"

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Expression Operators

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+	Add	<≖	Less than or equal
-	Subtract	and	Logical AND (&&)
*	Multiply	or	Logical OR ()
1	Divide	not	Logical NOT (!)
193	Modulus	contains	The preceding string, collection, or object array contains the following string
^	Exclusive OR	does not contain	The preceding string, collection, or object array does not contain the following string
>	Greater than	is empty	The preceding string, collection, or object array is empty
<	Less than	not empty	The preceding string, collection, or object array is not empty
==	Equals	matches	The preceding string matches the following regular expression
_	Assignment (sets a value)	starts with	The preceding string starts with the following string
!=	Does not equal	ends with	The preceding string ends with the following string
>=	Greater than or equal	;	Statement separator

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Date or Time Values in Expressions

java.util.Date data elements are evaluated in expressions as their millisecond epoch time (type long)



- All arithmetic and comparison operators can be applied to that value, as it now exists as a long number
- Example: Check if the User Task is within an hour of its expiration:

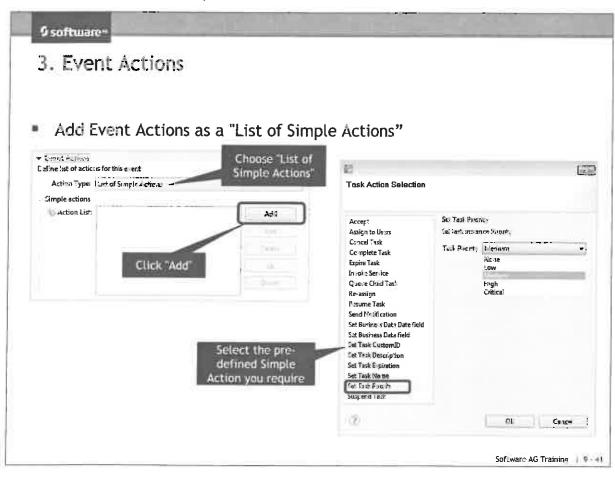
#{System.currentDateTime} >

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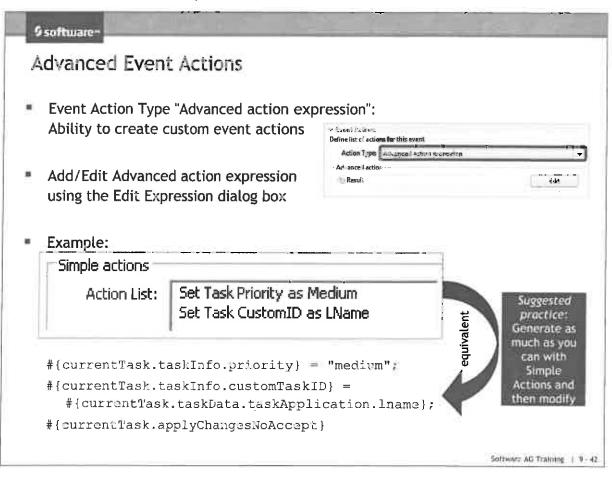
(#{currentTask.taskInfo.expireDate} = 3600000)

Use parentheses to build complex expressions!

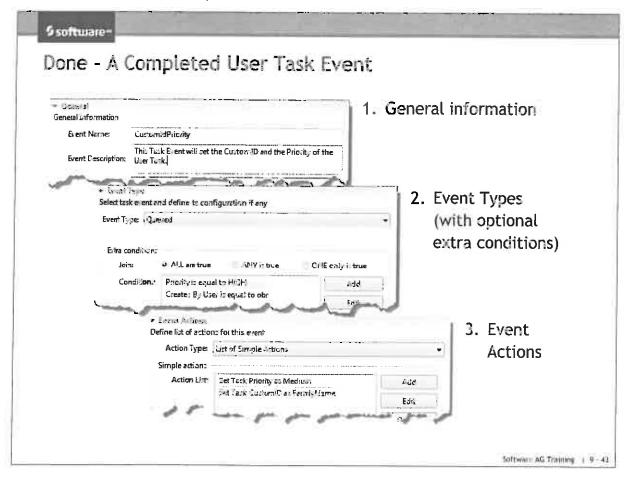
Software AG Training | 9-40



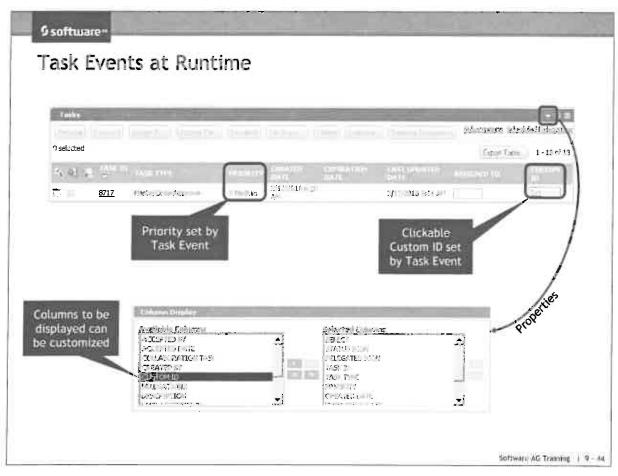
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webMethods 8.2 BPM for Developers 5 software-User Task Assignments Assignments Period to an in List of azzignments for this task. Use Ad-J button or drag and drop Roles from 11.45 Admin liev to add new assignments. i Abigues Assignment Options and Creditions Elistification Management Nev assignment M. C. Lieer Liser Administration inter-luction. Twelsters Business Data Antignments Elents inskipation and tackPute and User Tasks may be assigned to a list of defined users, groups and/or roles User Task assignment typically determines whose inboxes can see queued tasks User Task assignment is not required, but is typical Users, groups and roles must be configured in My webMethods before User Task assignment User Task assignment may be performed: Design time: Designer's Task Editor through Assignment tab Runtime: My webMethods Monitoring console through the Task List Management page Software AG Training | 9 - 45

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Configuring Users, Groups, and Roles in MWS

- My webMethods Server supports user identification for:
 - Access control of presentation services
 - User Task Assignments



- My webMethods Server manages three security concepts:
 - 1. User: an individual person interacting with the server
 - 2. Group: a collection of users and groups in an organization
 - 3. Role: a collection of users and groups and roles with similar

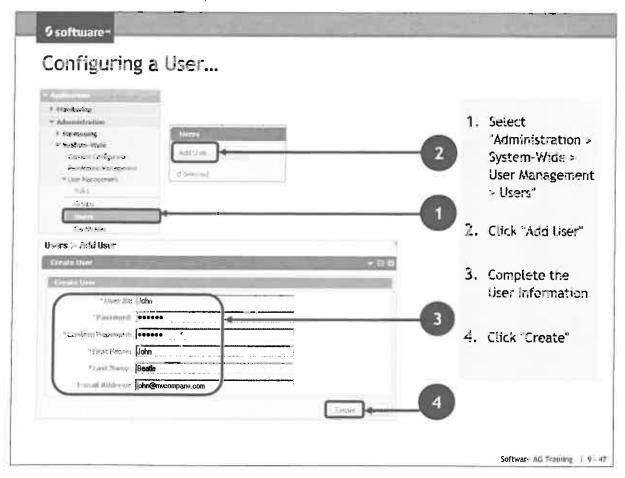
responsibilities

- User configuration done within MWS Administration console.
- MWS User information stored in
 - local directory
 - shared directory (LDAP)

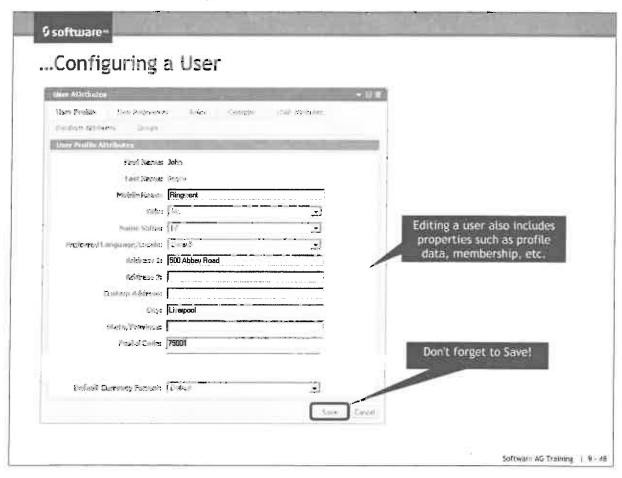


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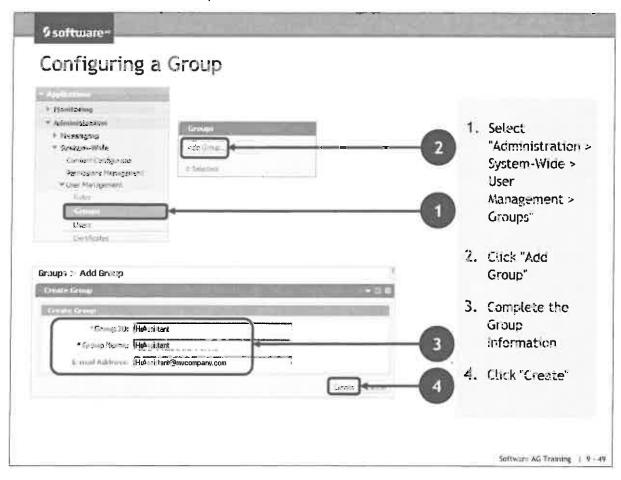
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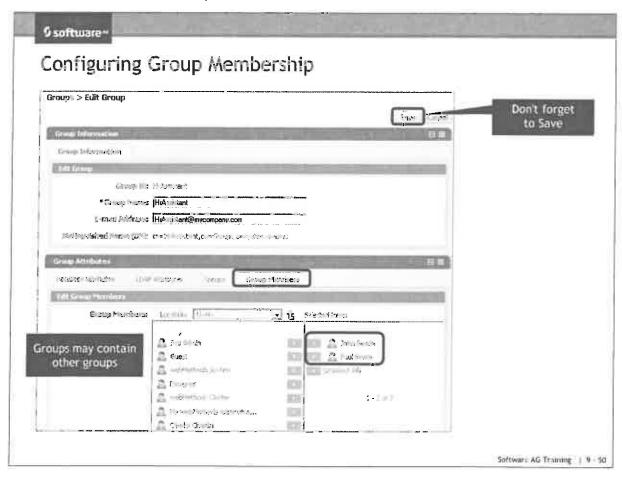
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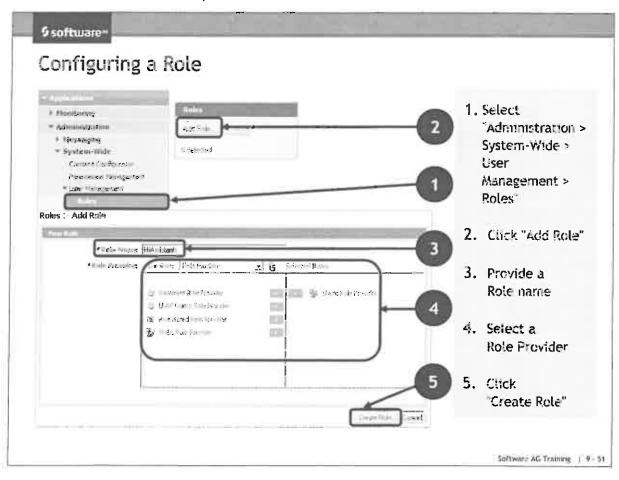
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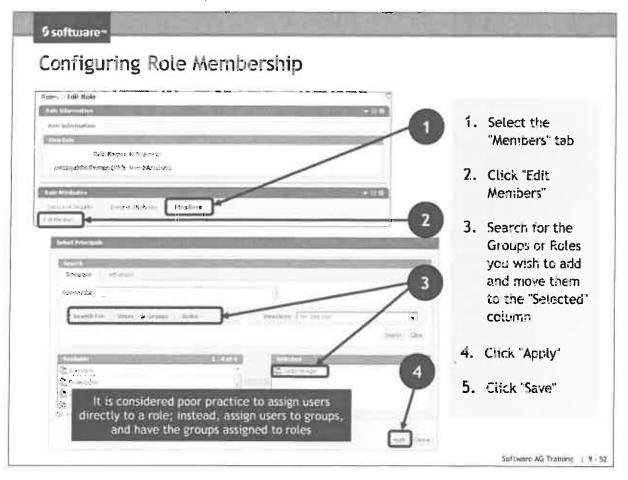
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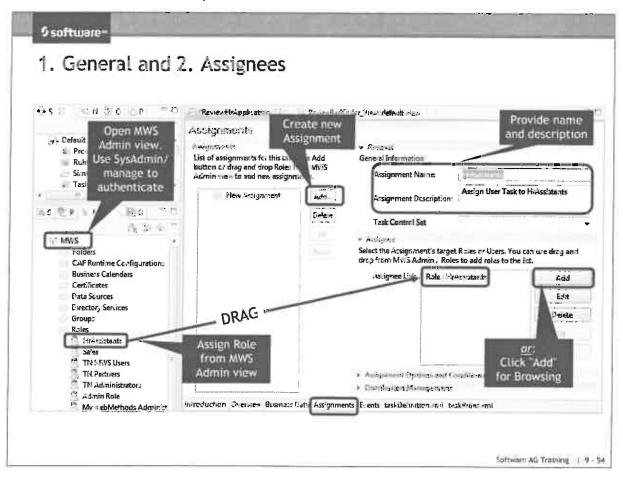
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9 software-User Task Assignments in Task Editor User Task Assignments in Task Editor are defined by: General Assignees Assignment Options and Conditions Distribution Management Assignments শ্ৰেষ্ট্ৰৰ চাৰ্থ্য) Seems! List of assignment, for this task. Use Add button or diag and fire; Roles from MinS adminision to add no passignments. A Padignissian Options and Conditions Indrast ostala jasena Cies Assignment AdJ. [eletc infroduction Overness Business Bata Adjignment. Energe (aut Defundation) testificales mot Software AG Training | \$ - 53

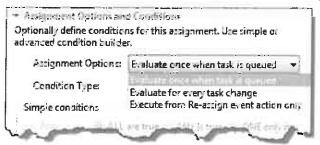
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- 3. Assignment Options and Conditions...
- Assignments determines to whom a User Task will be assigned
- Assignment may happen once or many times depending on options
- Available Assignment Options:
 - Evaluate once when task is gueued: Assignment only happens once (default)
 - Evaluate for every task change: Assignment may happen many times when the task system or business data changes
 - Execute from Re-assign event action only: Assignment may happen many times when the User Task is reassigned



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5 software* ... 3. Assignment Options and Conditions Assignment may optionally be based on a condition The Condition Type may be: Joined List of Simple Conditions, built by Simple Condition editor P. January College Conference Add Simple Condition Optionally define conditions for this assignment. Use simple or ad ranced condition builder. Brild a simple condition bases on Task Data Assi, nment Optional Evaluate once when law is queued Condition Type: Jones Lucoi for pie conditions Stel f Simple con litions DINUMPS SHARE MUDCHER Conditione: | Pient to enue to MELAULI F45.4 34 Ut Consel Cel-te Advanced Condition Expression using the expression language Edit Expression Curd a hatton to select and all I a field, operator, or a tion to the expression. You can also modify the Admirald | Polif Operator | Admirator Software AG Training | 9 - 96

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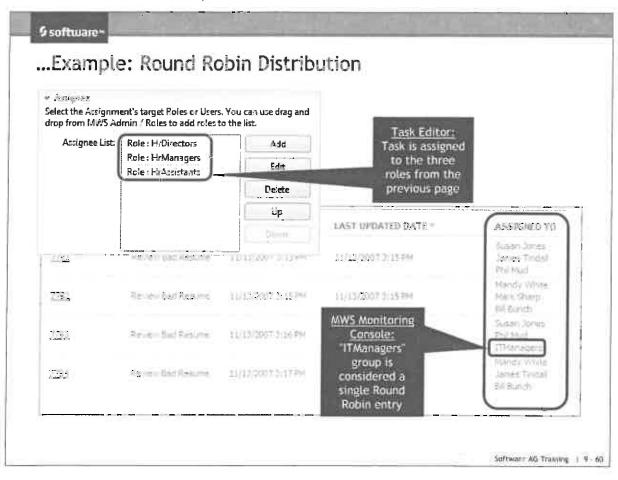
4. Distribution Management User Task Assignments may be distributed depending on Distribution Management Task Distribution strategies: No Distribution Management (default) All assigned users and roles will be affected * Graduate for Management of the strategies of the strateg

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6 software-Round Robin Distribution - Detribution Manuferenat For round-robin, the assignee list Select the distribution management options Distribution Manager Round-Pobin must contain only: - MWS Roles Tasks are resigned in a round-robin fashion IS Services that return Roles Check Availability Against User Callinda Security Roles by this class. Individual user names CANNOT be in the assignee list for the round-robin distribution management methods Group members of a role are considered a single entry in the role The expected round robin behavior may be effected if the "Check Availability Against User Calendar" option is checked Software AG Training | 9 - 58 Notes: _

Example: Round Robin Distribution... HrAssistanis HrManagers HrDirectors (Role) (Role) Mendy White Mark Sharp Phil Mud Susan Jones James Tindall Bill Bunch ITManagers (Group) The 'ITManagers "Group contains two members: "Jason" and "Donna"

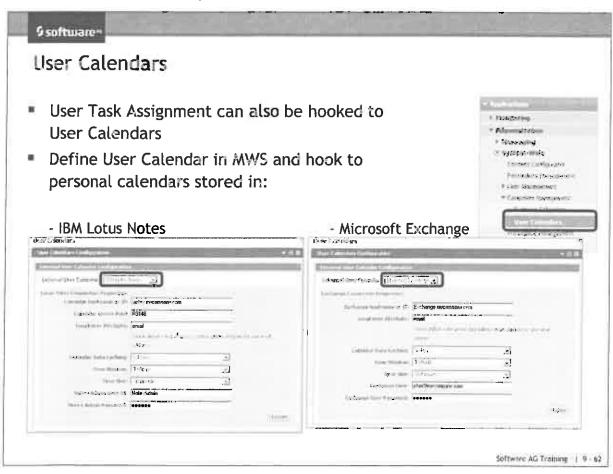
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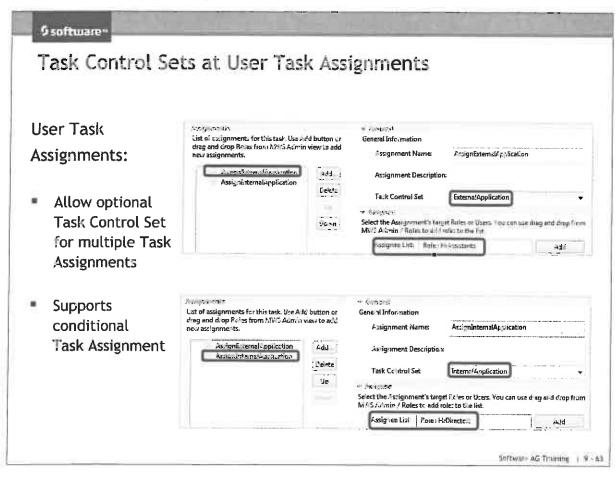
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5 software= Queue Length Distribution Tasks may be distributed based on the users queue length The queue length may: Use the User's Default Inbox Leverage a Saved Search created using the MWS console: SearchDorRe newbad Order Outstand on Making controls Options: Select the distribution management uptions Ignore Other Task Types Distribution Manager Quare Langth Queve Length If checked, only Tasks of this type will be Teaks are assigned to the assignce with the abortest task queue considered in the queue length calculation Check Availability Against User Calendar Task Queee: A Upe Open's Default Labo. Use Called Search If checked, the User calendar will be used Ignore Other Tauk Types to determine if the user is available Check A allability Agranst Use Calendar Software AG Training | 9 - 61

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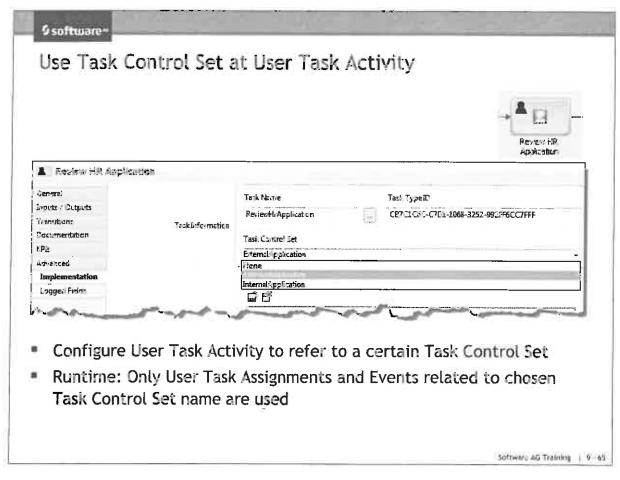
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9 software Task Control Sets at User Task Events List of e sic for this task General Information **User Task Events:** _ ئەلەس ^ا B ent frame EtternaiApplicationQueued Trenscapioni Cherry Internal Application Queued Cess Event Description: Allow optional Tank Control Set External Application Cen h I with fight Task Control Set for Define list of actions for this event **User Task Events** Action Type: Let of Emple welcom and Actions simple actions Action List: | Set Task Priority as Medium 7 - 9E 0.00 Supports conditional List of ever a law this tark Ceneral Information **User Task Events** F en France Internal application different E tenalisationicalizationed 160 ı ejet. and Actions Elent Description Ng I Test Contin Set Listernal-ppf cation Tarret 7ape a teach history Pefa elist of actions for the silen's Patien Type List of Synele Astrono Settember | Set Des Priority au High Software AG Training | 3 - 64

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Task Expiration

- User Task instances wait for human interaction
 - Associate an expiration date/time with a User Task
- User Task Expiration can be set by a Task Event
- Task Engine does NOT expires User Tasks when their expiration date is exceeded. When a User Task expires:
 - Its User Task status has to be set to "Expired"
 - Can be implemented by a Task Event of Event Type "Expiration Date Reached"
 - Its process resumes



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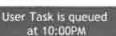
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Revisited: Business Calendars

- Like Join and Process timeouts, User Task expiration can be based on Business Calendars
 - Allows User Task expiration to be based on "business" hours, not clock hours

User Task Timeout of one business hour







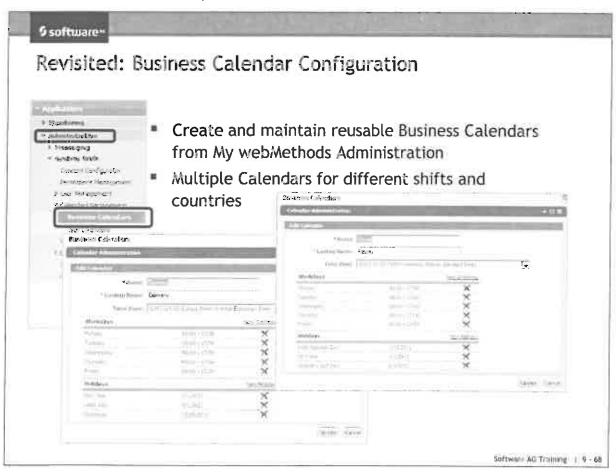
Employee start work at 8:00AM



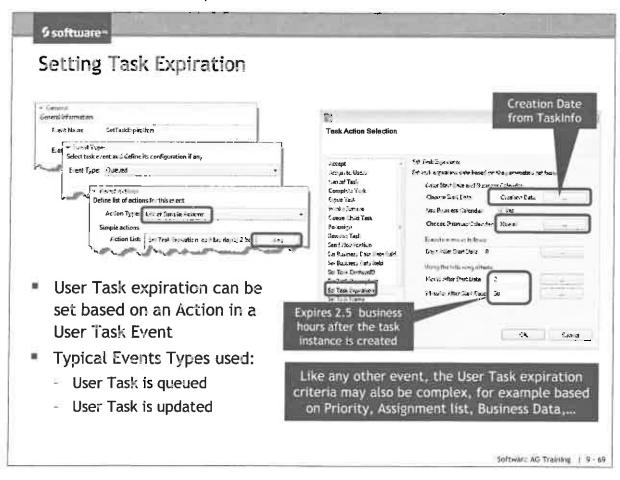
User Task expires at 9:00AM

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More Advanced User Task Topics

User Task definitions made in Task Editor stored in xml files



- User Tasks with e-mail notifications with/without reply
- User Task collaboration
 - configure and execute Task workflows for optional runtime collaboration
- Tasks supporting e-forms and CSP* documents
 - enable User Task UIs to handle e-form data or CSP documents
 - download/upload User Task data into/from e-forms or CSP documents

* webMethods Content Service Platform

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