

Enactor Training CourseCustomising Enactor



Customising Enactor



Agenda

- Process Sets
- Themes
- Application Extensions
- Hook Processes



Process Sets

- Process Sets provide a mechanism to override standard Enactor Application Processes
- Process Sets are configured using the enactor.xml:
 - Common.ProcessSet
 - Common.ParentProcessSet
- Process Set may also be configured on the command line, or for the mobile devices in the application preferences.
- Are intended to be used for 'application wide' overrides
- Unlike other override mechanisms, Process Set only applies to Application Process



Process Sets (cont.)

- When Processes are referenced in the application, the Platform will use the Process Set to locate them
 - For example, if the Process Set was 'MyCompany' and a Process 'Pos/Sale_1.0.xml' was requested, the Platform will look for the Process 'MyCompany/Pos/Sale_1.0.xml'
 - If the Process cannot be found using the Process Set, the Platform will fall-back to using the originally requested name



Process Sets – Hook Processes

- To support extension in earlier versions of Enactor, Hook Processes were supplied
- These are Processes that Enactor will always ensure are empty, providing a place for Customers to inject custom function
- They can be identified by the suffix 'Hook' or 'External' in the Process name
 - For example Pos/Employee/CaptureEmployeeSaleHook
- This is replaced by Extension Points for new overrides, but existing Hook processes will be retained for backwards compatibility



Themes

- Themes provide a more flexible approach to application customisation than Process Set
- The Theme can be configured:
 - Using the enactor.xml:
 - Common.Theme
 - Common.ParentTheme
 - Using the command line, or for the mobile client in the application preferences
 - Using a Pos Terminal associated with the Device



Themes (cont.)

- Themes may be different between different Devices in the same estate
- Themes apply to Application Processes, Page Definitions and Print Documents
- The Theme can be changed during the lifetime of an application



Themes (cont.)

- When resources are resolved using a Theme, the Platform will allow for a bi-directional, hierarchical lookup
 - For example, if the Theme was 'MyCompany/HighRes' and the Page Definition 'Pos/CaptureCustomer' was requested, the Platform will look for the following resources:
 - MyCompany/HighRes/Pos/CaptureCustomer
 - MyCompany/Pos/CaptureCustomer
 - HighRes/Pos/CaptureCustomer
 - Pos/CaptureCustomer



Application Extensions

- Application Extensions provide a mechanism to 'automatically' enable additional functionality
- Application Processes can refer to 'Extension Points' by using the UICallExtensionPointProcessAction
- Developers then declare, using the Packages.xml, that they want to implement an Extension Point
- The Platform will discover the implementations and use them automatically as the Application Process is run



Application Extensions (cont.)

- Multiple implementations can be defined for a single Extension Point
 - The developer can specify a priority ordering by referring to the Package ID (from the Packages.xml) that they should be run before or after
 - It is also possible to declare that a given implementation must override an existing implementation, suppressing the original behaviour
 - If no priority ordering is configured, the order the implementations will be applied in is undefined



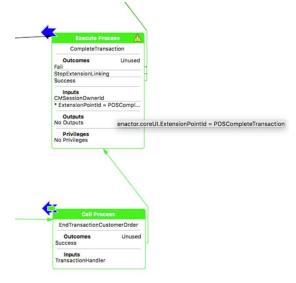
Application Extensions (cont.)

- When multiple implementation are present for an Application Process Extension, they will be invoked using the ordering information in the Packages.xml one after the other
 - Earlier implementations can pass information to following ones using the outputs of the Process
 - Earlier implementations can suppress further implementations by returning a special Outcome on the End Process Action:
 - enactor.action.StopExtensionLinking
 - The Outputs and Outcome from the last extension are returned to the calling Process



Application Extensions (cont.) Example – Defining an extension

- First, in the Process, use the UICallExtensionPointProcessAction and configure an Extension Point ID
- Then in the Packages.xml declare the extension with a default implementation:

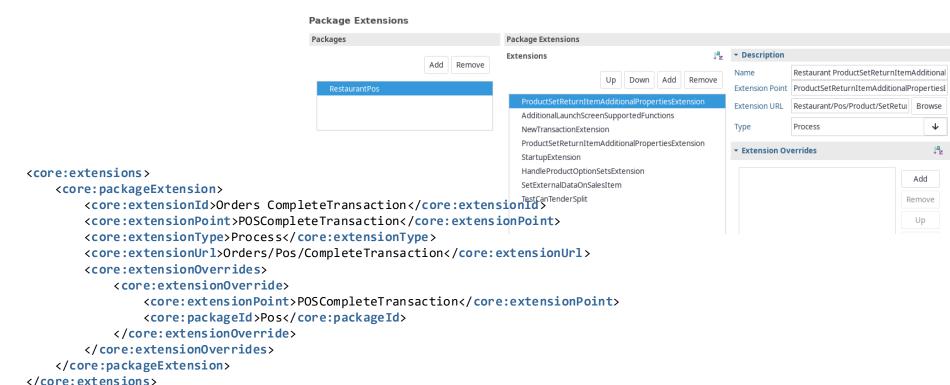


 You can omit the default implementation if one is not required



Application Extensions (cont.) Example – Overriding an extension

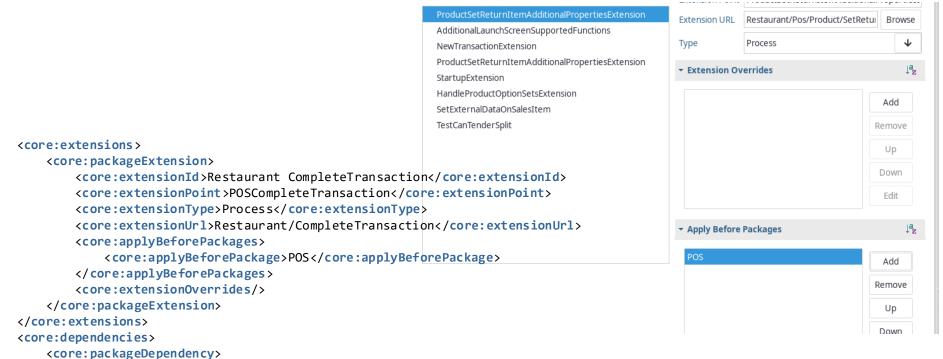
 Taking the previous example, we simply add a extension point override to our Packages.xml:





Application Extensions (cont.) Example – Controlling the ordering

To control the order extensions are applied, use the following in your Packages.xml:





</core:dependencies>

<core:packageId>POS</core:packageId>

</core:packageDependency>



Q & A