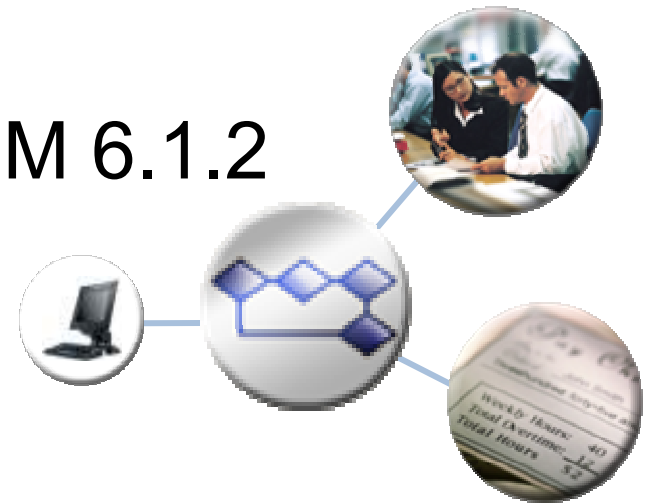




WebSphere Software

What's new in WebSphere BPM 6.1.2

Riba István
WebSphere Technical PreSales



SOA on your terms and our expertise

ON DEMAND BUSINESS™

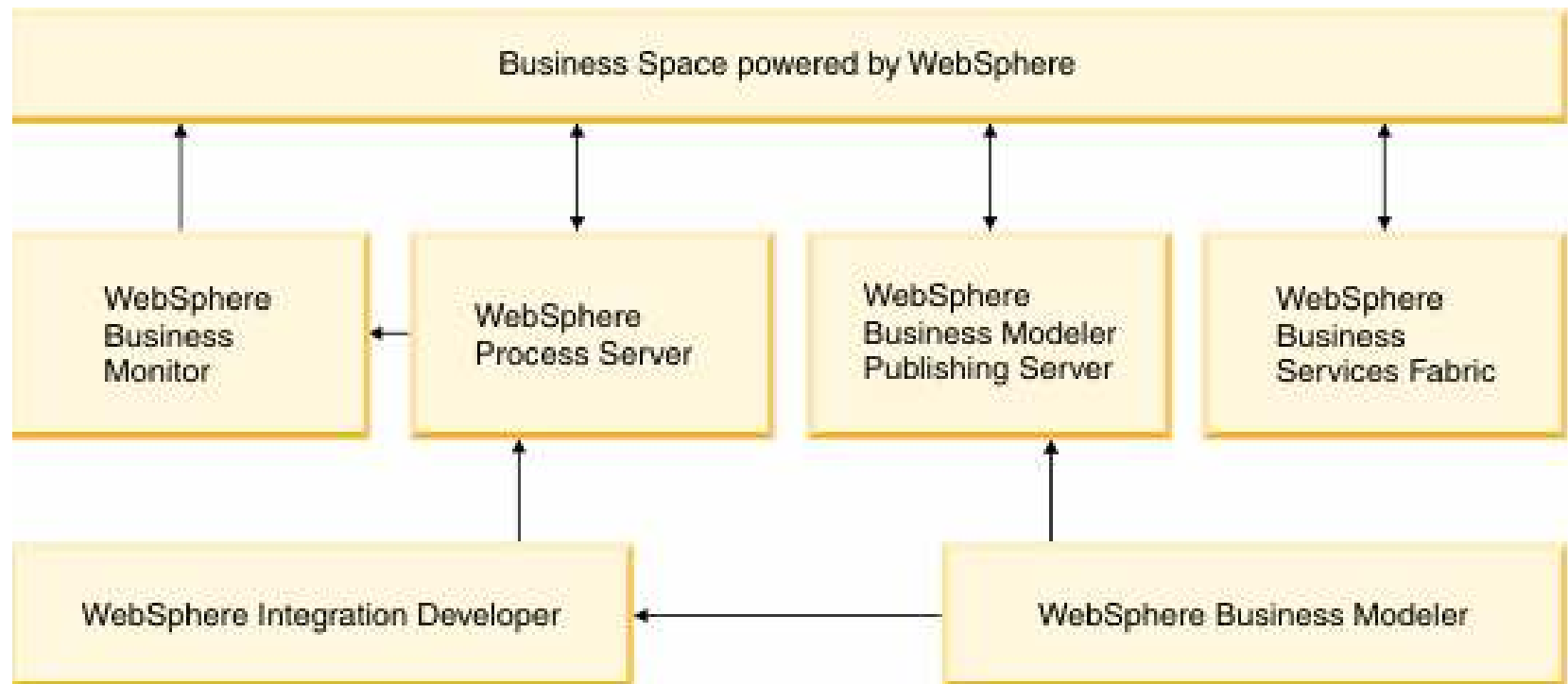
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Agenda

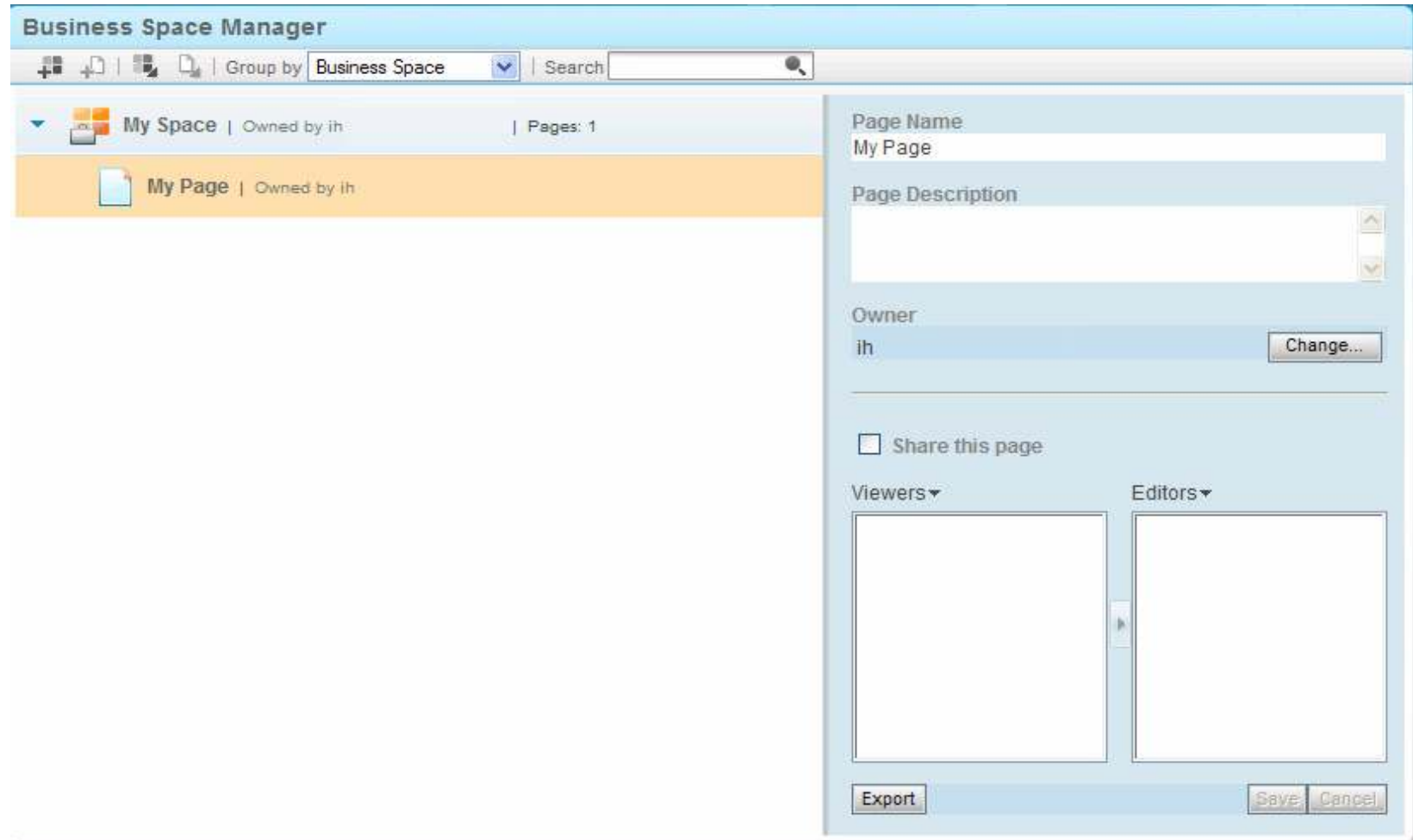
- Business Space powered by WebSphere
- WebSphere Business Modeler 6.1.2
- WebSphere Integration Developer & WebSphere Process Server 6.1.2
- WebSphere Business Monitor 6.1.2

Business Space

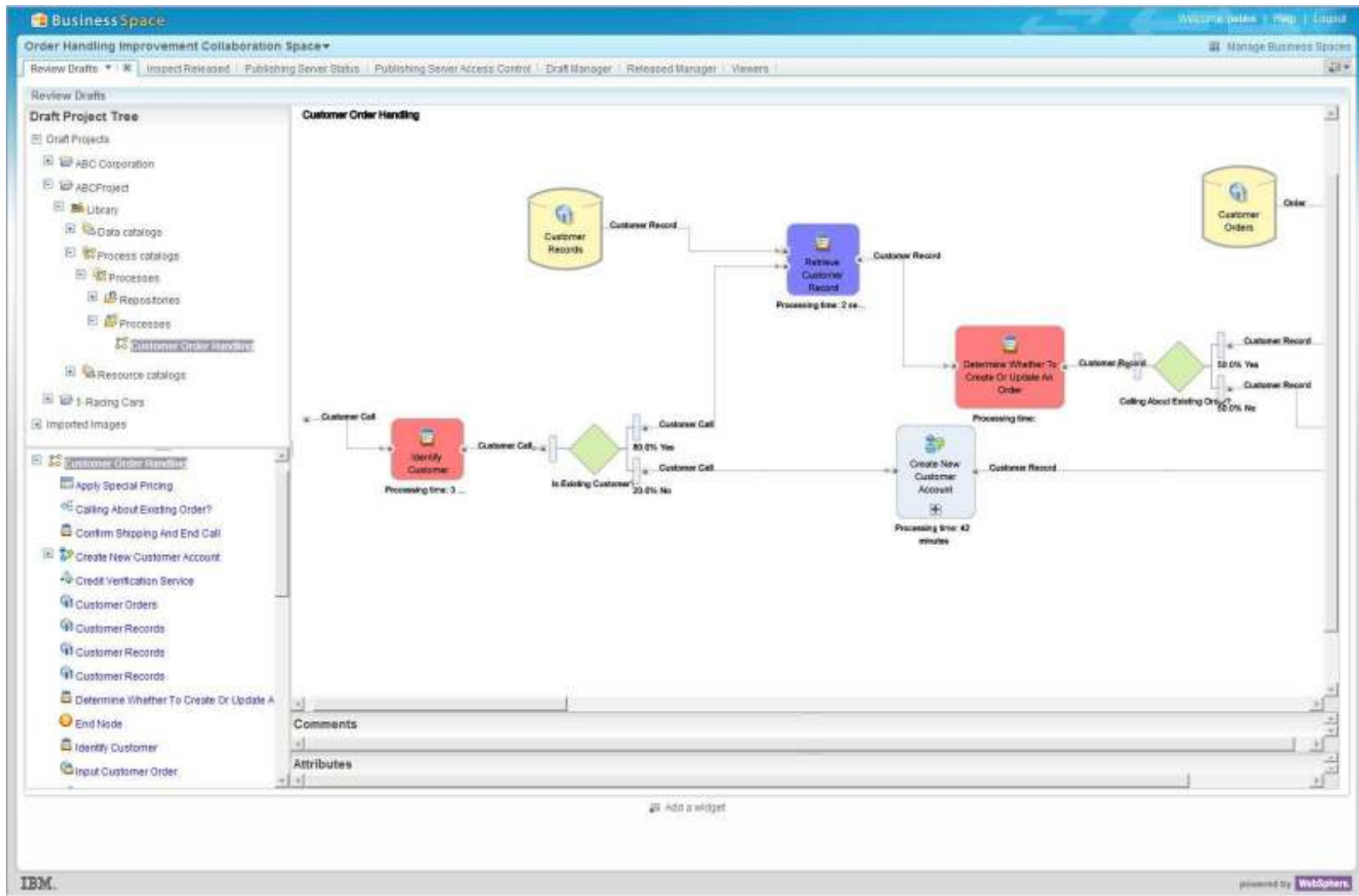
- Browser-based graphical user interface that lets business users interact with content from products in the WebSphere Business Process Management portfolio



Business Space Manager



Business Space – Modeler Publishing Edition



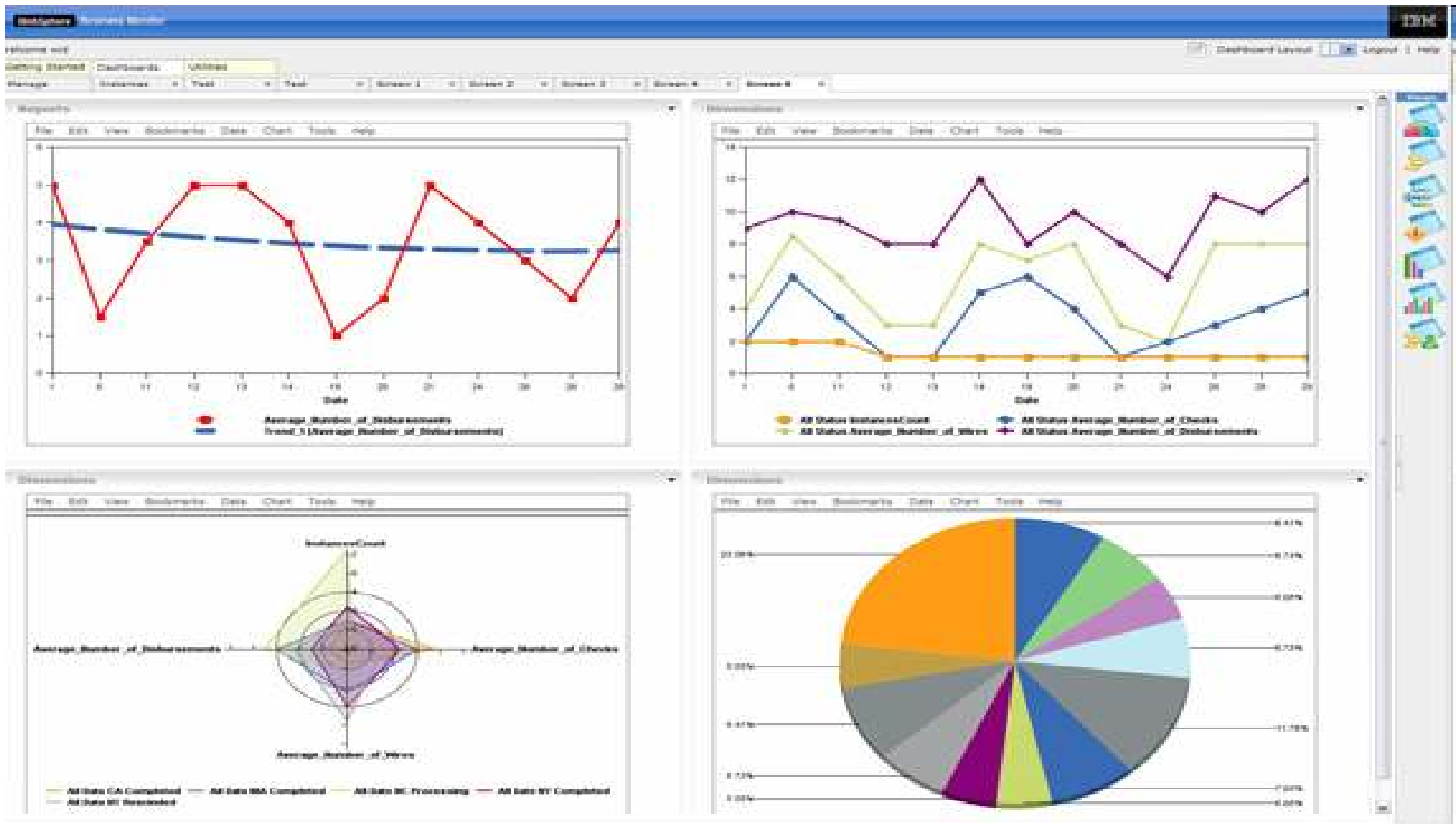
Publishing Server in Business Space

The screenshot displays the Business Space web application interface. At the top, a navigation bar includes 'Review Drafts', 'Inspect Released', 'Publishing Server Status', 'Publishing Server Access Control', 'Draft Manager', 'Released Manager', and 'Viewers'. The main content area features a 'Draft Project Tree' on the left, a central process diagram titled 'Racing for Gold', and a 'Comments' section at the bottom. The process diagram shows a flow starting with 'Race Registration' for 'Lightning McQueen', 'Duke', and 'Duke's Hoop'. These lead to a 'Ready, set, go!' task, followed by 'Position on the Track' and a decision diamond 'Is there a Rule Violation?'. The flow then proceeds to 'Racing Rules' and finally 'Go! Penalty Box'. The 'Comments' section includes buttons for 'Add Comment', 'Add Response', 'Delete Comment', and 'Export', along with a filter and a table with columns for 'Subject', 'Author', 'Created', and 'Modified'.

Business Space
Integration with Monitor,
Human Tasks, and Process
Variability

Review Forms
And other custom images

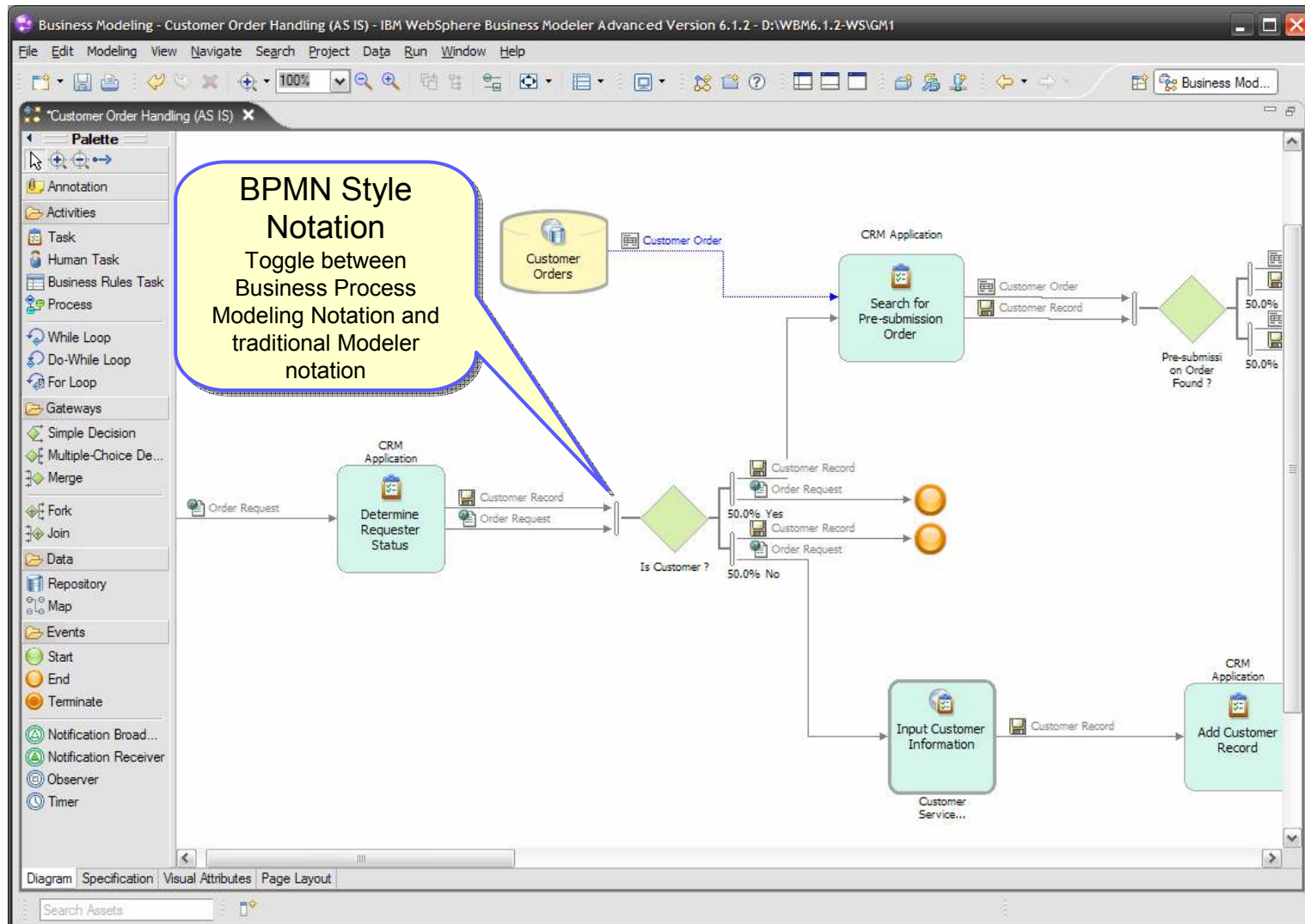
Business Space - Monitor



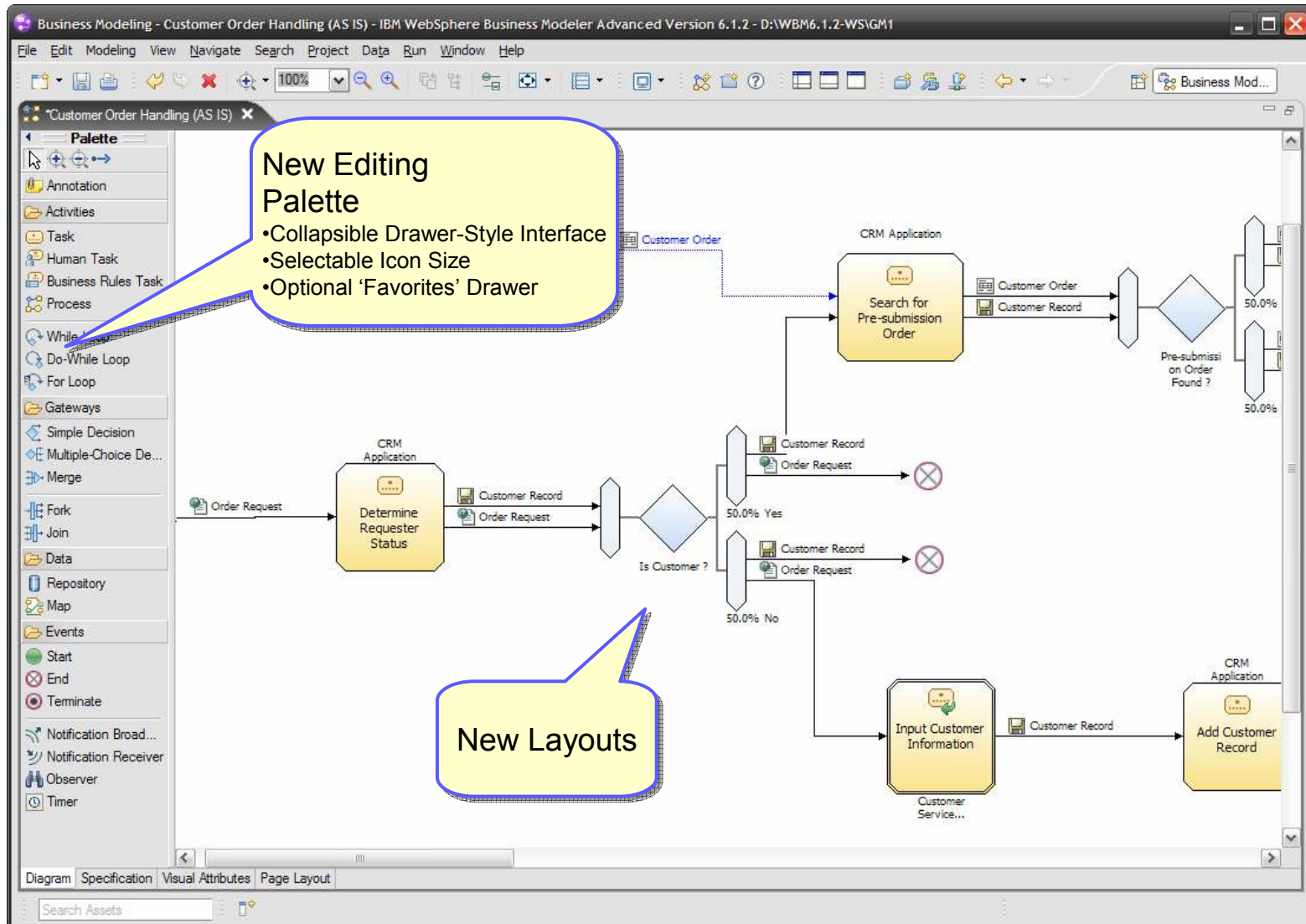
Agenda

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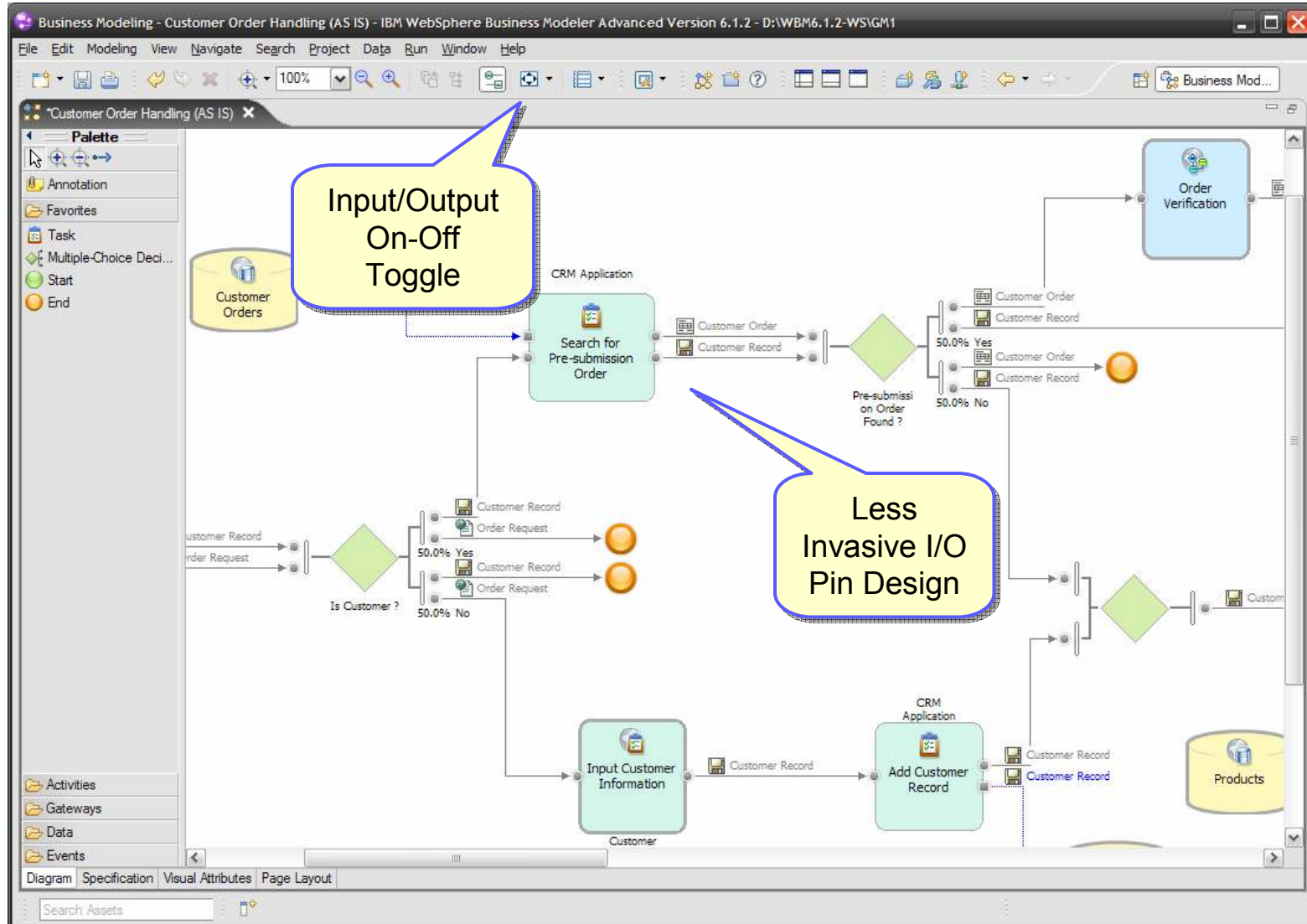
Process Editor Enhancements



Process Editor Enhancements



Process Editor Enhancements



Process Editor Enhancements

Breadcrumbs Navigation
For use with loops and sub-processes

Custom Images
On process activities

Attributes - Search for Pre-submission Order

General | Cost and Revenue | Duration | Inputs | Outputs | Organizations | Classifiers

Organization units and locations
This section shows the responsible organization units and locations for performing this process.

Organization units
Select an organization unit.

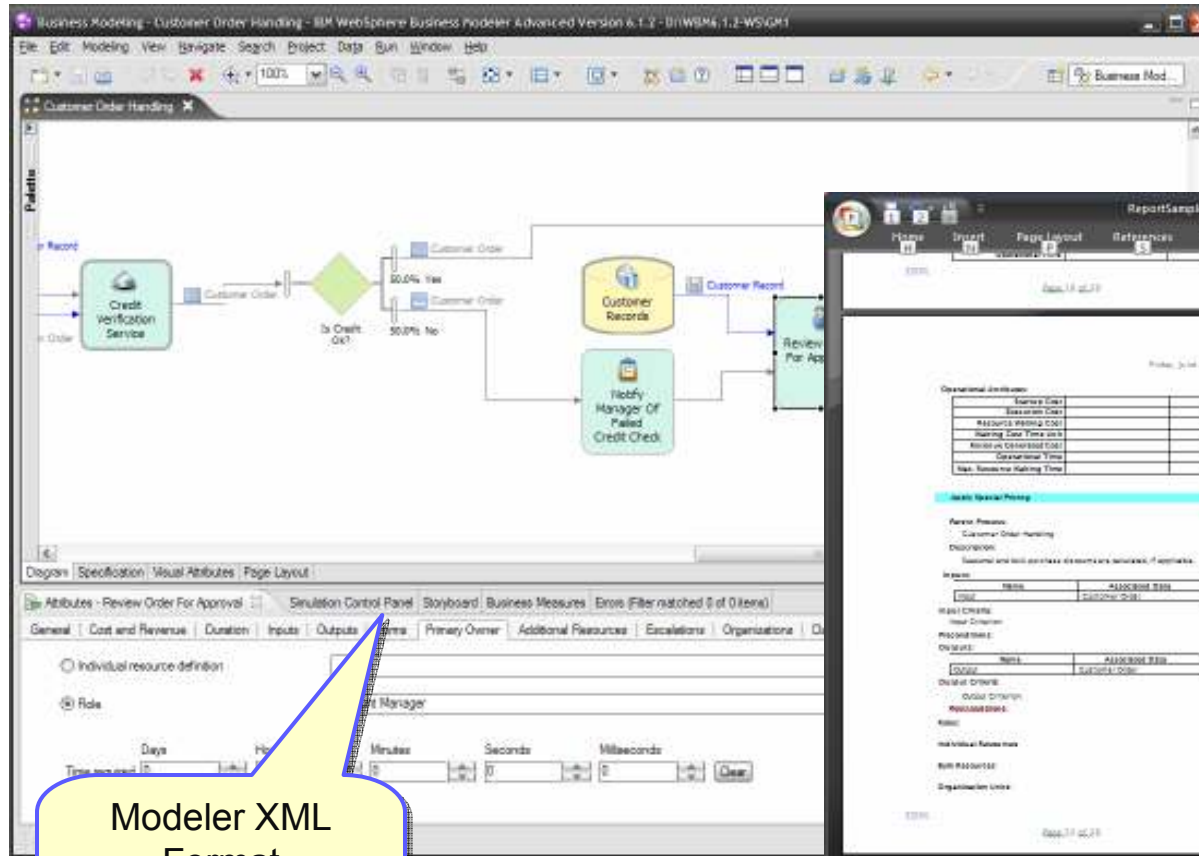
Locations
Select a location.

Accounting | Seattle Call Center

Add | Add

Search Assets

Business Rules and Human Tasks Reporting



Modeler XML Format
Includes full details of Business Rules and Human Tasks

Updated Predefined Reports
Includes details of Business Rules and Human Tasks

| Source Code | Description |
|----------------|-------------|
| Customer Order | |
| Customer Order | |
| Customer Order | |
| Customer Order | |
| Customer Order | |
| Customer Order | |
| Customer Order | |
| Customer Order | |

| Business Rule | Operational Time |
|---------------|------------------|
| Business Rule | |
| Business Rule | |
| Business Rule | |
| Business Rule | |
| Business Rule | |
| Business Rule | |
| Business Rule | |
| Business Rule | |

Template-based Excel™ import

| Business Item Template Name | Description | Parent Template | Attribute Name | Attribute Description | Attribute Type | Attribute Minimum | Attribute Maximum | Attribute Read Only | Attribute Static | Attribute Ordered |
|-----------------------------|--|-----------------|-----------------|--------------------------------------|----------------|-------------------|-------------------|---------------------|------------------|-------------------|
| Order | Defines the base attribute of an Order | | Last Name | | String | 1 | 1 | TRUE | FALSE | FALSE |
| | | | First Name | | String | 1 | 1 | TRUE | FALSE | FALSE |
| | | | Order Number | Order Number is unique to each Order | Integer | 1 | 1 | FALSE | FALSE | FALSE |
| | | | Order Date | | Date | 1 | 1 | FALSE | FALSE | FALSE |
| | | | Delivery Date | | Date | 1 | 1 | FALSE | FALSE | FALSE |
| Product | | | Product Name | | String | 1 | 1 | FALSE | FALSE | FALSE |
| | | | Product Code | | String | 1 | 1 | FALSE | FALSE | FALSE |
| Record | | | Last Name | | String | 1 | 1 | FALSE | FALSE | FALSE |
| | | | First name | | String | 1 | 1 | FALSE | FALSE | FALSE |
| | | | Customer Number | | Integer | 1 | 1 | FALSE | FALSE | FALSE |

Use templates to import process model content from Excel™ and Open Office formats

WebSphere Business Modeler Import

Microsoft Excel import details

Select the worksheets from which you want to import element information.

| Worksheet | Summary | Import |
|-------------------------------|----------------------------------|-------------------------------------|
| Bulk Res. Definition | 3 Bulk Res. Definitions | <input checked="" type="checkbox"/> |
| Bulk Res. Definition Template | 1 Bulk Res. Definition Template | <input checked="" type="checkbox"/> |
| Bulk Resource | 2 Bulk Resources | <input checked="" type="checkbox"/> |
| Business Item | 5 Business Items | <input checked="" type="checkbox"/> |
| Business Item Template | 3 Business Item Templates | <input checked="" type="checkbox"/> |
| Business Rules Task | 1 Business Rules Task | <input checked="" type="checkbox"/> |
| Global Task | 6 Global Tasks | <input checked="" type="checkbox"/> |
| Human Task | 1 Human Task | <input checked="" type="checkbox"/> |
| Ind. Res. Definition | 2 Ind. Res. Definitions | <input checked="" type="checkbox"/> |
| Ind. Res. Definition Template | 2 Ind. Res. Definition Templates | <input checked="" type="checkbox"/> |
| Individual Resource | 2 Individual Resources | <input checked="" type="checkbox"/> |
| Location | 5 Locations | <input checked="" type="checkbox"/> |
| Location Definition | 3 Location Definitions | <input checked="" type="checkbox"/> |
| Location Definition Template | 1 Location Definition Template | <input checked="" type="checkbox"/> |
| Org. Definition | 4 Org. Definitions | <input checked="" type="checkbox"/> |
| Org. Definition Template | 1 Org. Definition Template | <input checked="" type="checkbox"/> |
| Organization Unit | 5 Organization Units | <input checked="" type="checkbox"/> |
| Role | 4 Roles | <input checked="" type="checkbox"/> |

Back Next Finish Cancel

Forms Simulation

Data-Driven
Process Simulation
Verifies process logic and
Form behavior

The screenshot displays the IBM WebSphere Business Modeler interface. On the left, a process flow diagram shows a sequence of tasks: 'Check Inventory' (task 0), 'Review Order' (task 1), and an output connector. The 'Review Order' task is currently active. On the right, an 'Input/Output Form' is shown, containing fields for 'CustomerOrder', 'OrderNumber' (ON10001), 'IsInStock' (checked), 'CompletionDate' (4 Jul 2008), and 'IsComplete' (checked). Below the form, a 'Simulation Control Panel' indicates the simulation is running, with a timer showing 00:01:46. At the bottom, a 'Forms' table provides a detailed view of the simulation's state.

| Form State | Human Task | Arrival Time | Process Instance | Input Form | Output F... | |
|------------|------------------------------|-------------------------------|---|---------------|---------------|------|
| Waiting | Order Handling Process\Pr... | Friday, May 16, 2008 5:55:... | Order Handling Process Friday, May 16, 2... | Customer O... | Customer O... | Open |
| Completed | Order Handling Process\VR... | Friday, May 16, 2008 5:48:... | Order Handling Process Friday, May 16, 2... | Order Form | Customer O... | |
| | Order Handling Process\Pr... | Friday, May 16, 2008 5:50:... | Order Handling Process Friday, May 16, 2... | Customer O... | Customer O... | |

Interactive Form
Completion

Form Status

Advanced Monitoring Capabilities

Business Measure Details

The KPI "Average Order Amount" for the element "Order Handling Process" does not have a type specified, so the KPI will require further editing in the WebSphere Business Monitor development toolkit.

Business Measures

- KPIs
 - Average Order Amour
- Instance Metrics
 - Order Amount
 - Country
 - Inspect Order Workin
- Aggregate Metrics
 - Dimensions
 - Country
 - pecified Metrics

Business Measure Information

Name: Average Order Amount

Type: KPI Instance metric Aggregate metric Unspecified

Description:

Business Measure Details | **Advanced Details** | Dashboard Samples

KPI Calculation Details

Specify the underlying instance metric to use to calculate this KPI.

Specify how to calculate this KPI

Instance metric to aggregate: Order Amount

Aggregation function: Average

KPI Data Filter

You can restrict the information that will be included in the calculation of the KPI. For example, for your Sales In London KPI, you could set the data filter name to City and the value to London.

Specify data filters to limit the values included in the calculation of this KPI

| Data Filter Name | Instance Metric | Operator | Values to Include |
|------------------|-----------------|----------|-------------------|
| US Orders | Country | equal to | US |
| | | | |
| | | | |

Complete Measure Definition from within Modeler

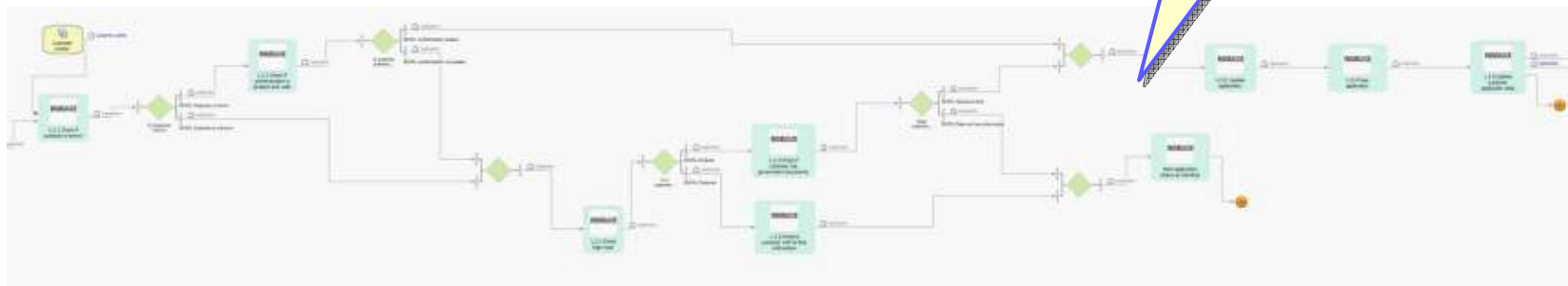
Advanced Business Measure Details
Extended definitions for KPIs, metrics, filters and dimensions

Industry-Focused Model Samples!

- Financial Management
- Human Capital Management
- Supply Chain Management
- Banking
- Insurance
- Government
- Retail

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models



<http://www-1.ibm.com/support/docview.wss?rs=0&uid=swg27012846>

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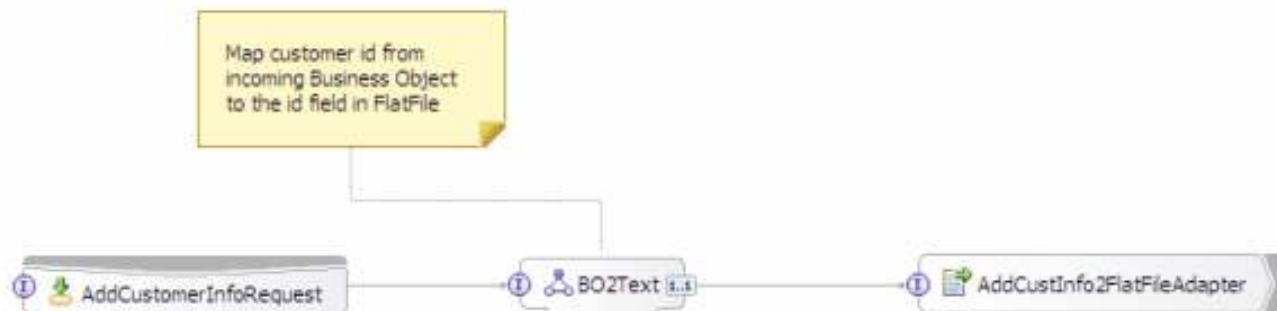
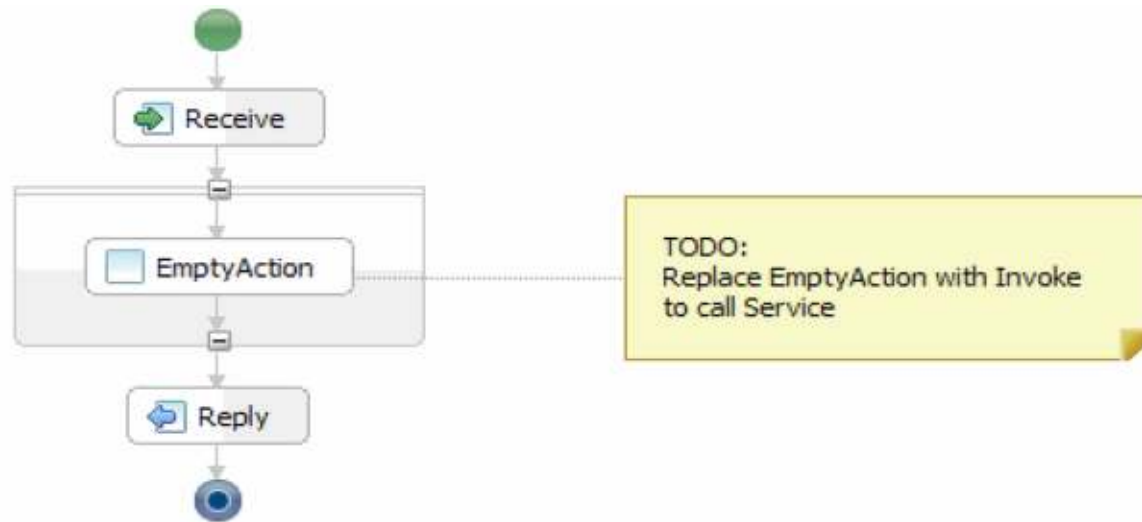
Business calendars

- rich set of semantics surrounding time and schedule-based operations or decisions

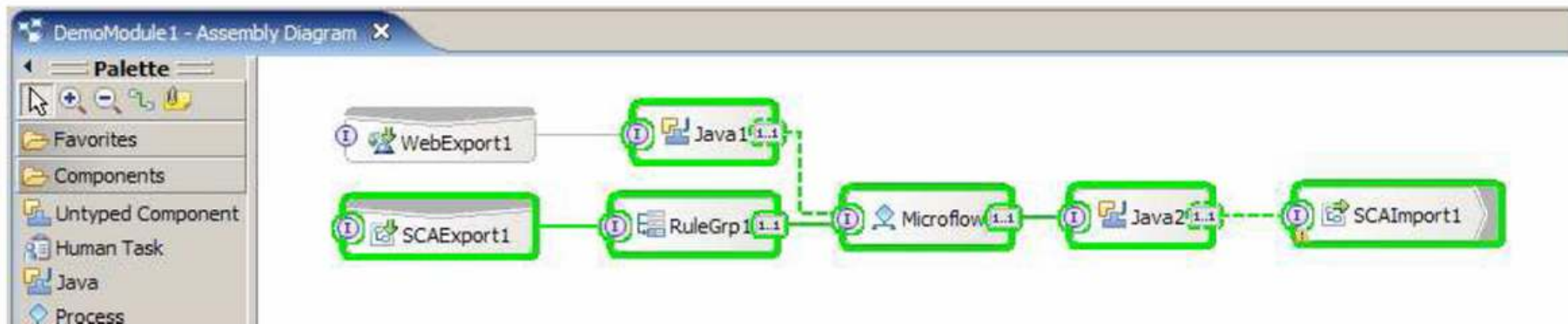
The screenshot displays the 'Business Calendar AlexCal' application window. The interface is divided into several sections:

- General:** A tabbed interface with 'General' selected.
- Time Intervals:** A list of intervals on the left, including 'Morning Shift', 'Evening Shift', 'Every weekend' (highlighted), 'Break For 5 minutes ever', 'Include Release {http://}', and 'Exclude CompanyHoliday'. To the right are buttons for 'Add Interval', 'Add Exception', 'Duplicate', 'Add Include', 'Add Exclude', and 'Remove'.
- Details for the Selected Time Interval:** A section for configuring the 'Every weekend' interval.
 - Schedule:** Set to 'Weekly' with a 'Show the examples' link.
 - First occurrence:** 'Begins On' is 'Saturday, May 31, 2008' at '8:00:00 AM', and 'Ends On' is 'Saturday, May 31, 2008' at '12:00:00 PM'. A 'For one day' checkbox is present. The 'Duration' is '4 hr'.
 - Repeat weekly:** 'Every: 1' Week(s). A checked checkbox 'Also repeat on the selected weekdays' is followed by checkboxes for 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', and 'Sun' (checked).
 - Repeat until:** 'Jun 30, 2008 12:00:00 PM'.

Visual editor - Notes



Assembly editor – Transaction visualization



Activity view – show deltas

View and Publish Changes to Servers

View the changes that were made to the business integration projects and publish them to the servers

Changes that will be published: Tree Mode

- ▶ **WebSphere ESB v6.1 Server @ localhost**
- ▼ **WebSphere Process Server v6.1**
 - M1
 - BO1.xsd
 - BO5.xsd
 - BO3.xsd
 - M1App
 - EarContent

Do not show this dialog again.

? Publish Cancel

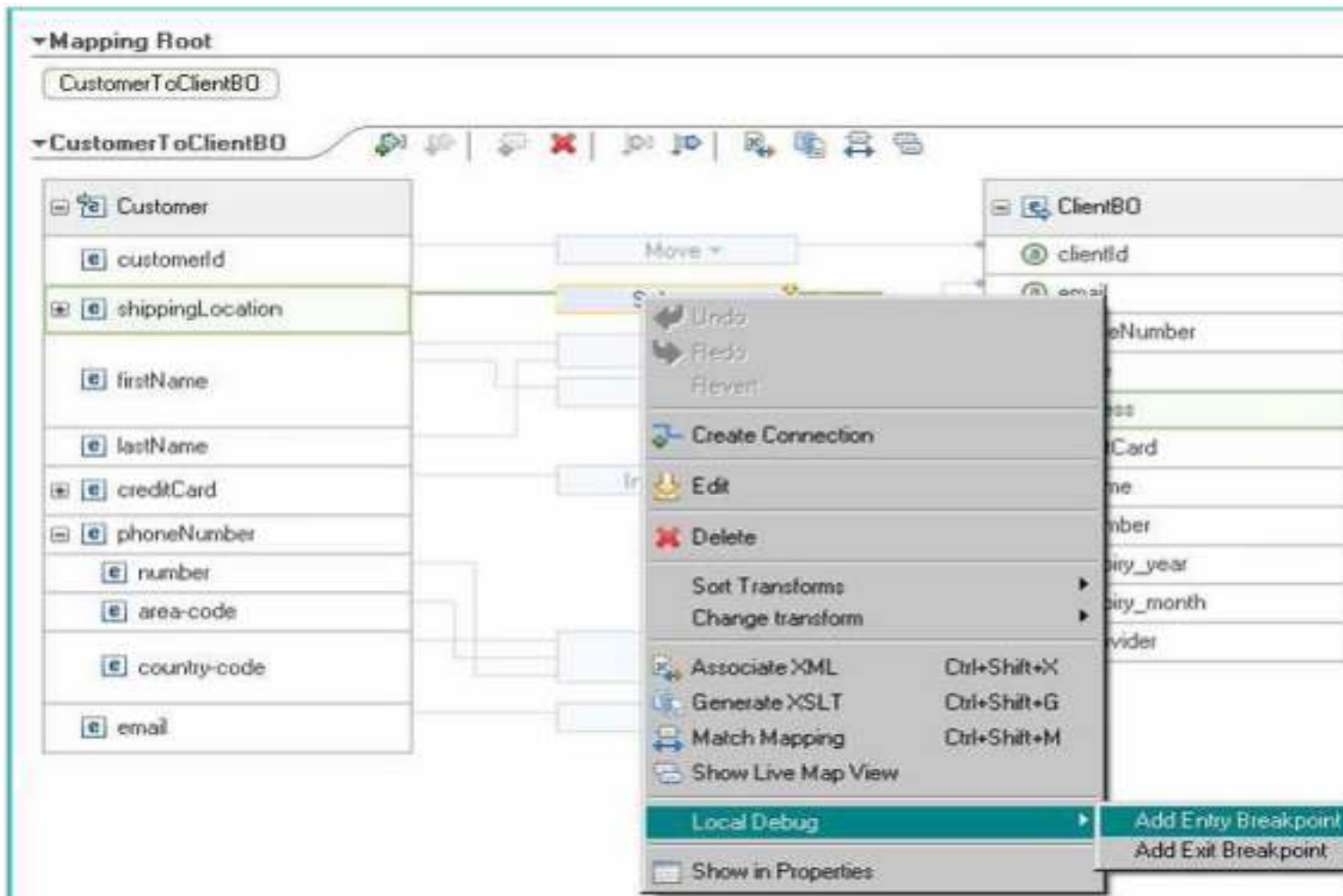
Debugging – Cross component tracing

The screenshot displays the 'Cross Component Trace' window in IBM WebSphere. The 'Show:' dropdown is set to 'Call sequence'. The main area shows a hierarchical tree of call sequences. The selected path is: Invoke (OrderReceiver:placePurchaseOrder) > Start (OrderReceiver:placePurchaseOrder) > Process (OrderReceiver:placePurchaseOrder) > Invoke (OrderReceiver:placePurchaseOrder) > Start (InventoryManager:checkInventory) > Process (InventoryManager:checkInventory) > End (InventoryManager:checkInventory) > End (OrderReceiver:placePurchaseOrder).

| Type | Trace |
|--|---|
| Invoke (OrderReceiver:placePurchaseOrder) | |
| Start (OrderReceiver:placePurchaseOrder) | [5/7/08 9:01:24:781 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 d23405f3-8161-4877-9bc7-0d3827e333f0 SCA:[Call:preRefInvoke] |
| Log message | [5/7/08 9:01:24:968 PDT] 0000002f SystemOut O DataObject Chosen |
| Process (OrderReceiver:placePurchaseOrder) | |
| Start (OrderReceiver:placePurchaseOrder) | [5/7/08 9:01:24:984 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 280adc06-0fe3-43f1-a193-cefea436b17c SCA:[Call:preTargetInvoke] |
| Log message | [5/7/08 9:01:25:000 PDT] 0000002f SystemOut O _HT_: Calling inventoryManager.checkInventory() [Synchronous]. |
| Log message | [5/7/08 9:01:25:015 PDT] 0000002f SystemOut O DataObject Chosen |
| Invoke (OrderReceiver:placePurchaseOrder) | |
| Start (InventoryManager:checkInventory) | [5/7/08 9:01:25:015 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 ad87b70c-bbff-4504-8e11-4eb32384506c SCA:[Call:preRefInvoke] |
| Log message | [5/7/08 9:01:25:031 PDT] 0000002f SystemOut O DataObject Chosen |
| Process (InventoryManager:checkInventory) | |
| Start (InventoryManager:checkInventory) | [5/7/08 9:01:25:031 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 d5aeedb2-b564-4dd9-8e15-3b7e3882f6b5 SCA:[Call:preTargetInvoke] |
| FFDC | [5/7/08 9:01:25:062 PDT] 0000002f ServiceLogger I com.ibm.ws.ffdc.IncidentStreamImpl initialize FFDC0009I: FFDC opened incident stream file C:\W612\profile |
| FFDC | [5/7/08 9:01:25:140 PDT] 0000002f ServiceLogger I com.ibm.ws.ffdc.IncidentStreamImpl resetIncidentStream FFDC0010I: FFDC closed incident stream file C:\W |
| Log message | [5/7/08 9:01:25:140 PDT] 0000002f SystemOut O DataObject Chosen |
| End (InventoryManager:checkInventory) | [5/7/08 9:01:25:156 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 8976d6b7-2312-401e-8bb0-d73b3560e3b6 SCA:[Call:postTargetInvoke] |
| Log message | [5/7/08 9:01:25:156 PDT] 0000002f SystemOut O DataObject Chosen |
| End (InventoryManager:checkInventory) | [5/7/08 9:01:25:171 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 36f912b0-1311-4cd3-af5e-87067b9a8363 SCA:[Call:postRefInvoke] |
| Log message | [5/7/08 9:01:25:171 PDT] 0000002f SystemOut O _HT_: Called inventoryManager.checkInventory() [Synchronous]. Inventory count=100 |
| Log message | [5/7/08 9:01:25:171 PDT] 0000002f SystemOut O _HT__ SYNC_AND_ASYNCONEWAY_COMPLEX_SCENARIO Scenario Ended [SYNC_AND_ASYNCONEWAY_ |
| Log message | [5/7/08 9:01:25:171 PDT] 0000002f SystemOut O DataObject Chosen |
| End (OrderReceiver:placePurchaseOrder) | [5/7/08 9:01:25:187 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 504584e9-aaf3-42d5-b43a-8dd81c435834 SCA:[Call:postTargetInvoke] |
| Log message | [5/7/08 9:01:25:218 PDT] 0000002f SystemOut O DataObject Chosen |
| End (OrderReceiver:placePurchaseOrder) | [5/7/08 9:01:25:218 PDT] 0000002f XCT I d378ec96-26a5-4292-aad9-d872c0dc2a97 b4ff6b9b-0ddc-4034-8d9d-f0181e1f2dd8 SCA:[Call:postRefInvoke] |

* Call sequence shows the logs and hirarchical relationship. Select from combo box to drill down to specific types of logs.

XSLT debug



Invocation using SCA / Web Service binding

The screenshot displays the 'Events' window in the IBM WebSphere IDE. The left pane shows a tree view of test results, with the 'Invoke Int3Export1:operation1' step selected. The right pane shows the 'Detailed Properties' for this step, including the module, export, binding service, binding port, and service address. Below the properties is a 'SOAP request message' section with a 'Value Editor' tab showing the XML structure of the message.

| Name | Type | Value |
|-------------------|--------------------|-------|
| Envelope | Envelope | ✓ |
| Header | Header | ✓ |
| [] any | anyType[] | 60 |
| Sec | SecurityHeaderType | ✓ |
| [] any | anyType[] | 60 |
| UsernameTokenType | UsernameTokenType | ✓ |
| [] any | anySimpleType[] | ✗ |
| [] anyAttri | anySimpleType[] | ✗ |
| Body | Body | ✓ |
| [] any | anyType[] | 60 |
| oper | operation1 | ✓ |

Automatically run all of your test cases from a command prompt with ant scripts using tasks that help you retrieve, build, deploy, and run your test cases and, upon completion, return the server to its original state by removing the projects from the server

Human task features

- Support for business calendar
- Generator for Business Space
- In the human task editor, you can choose a part of the input message to replace properties of that task

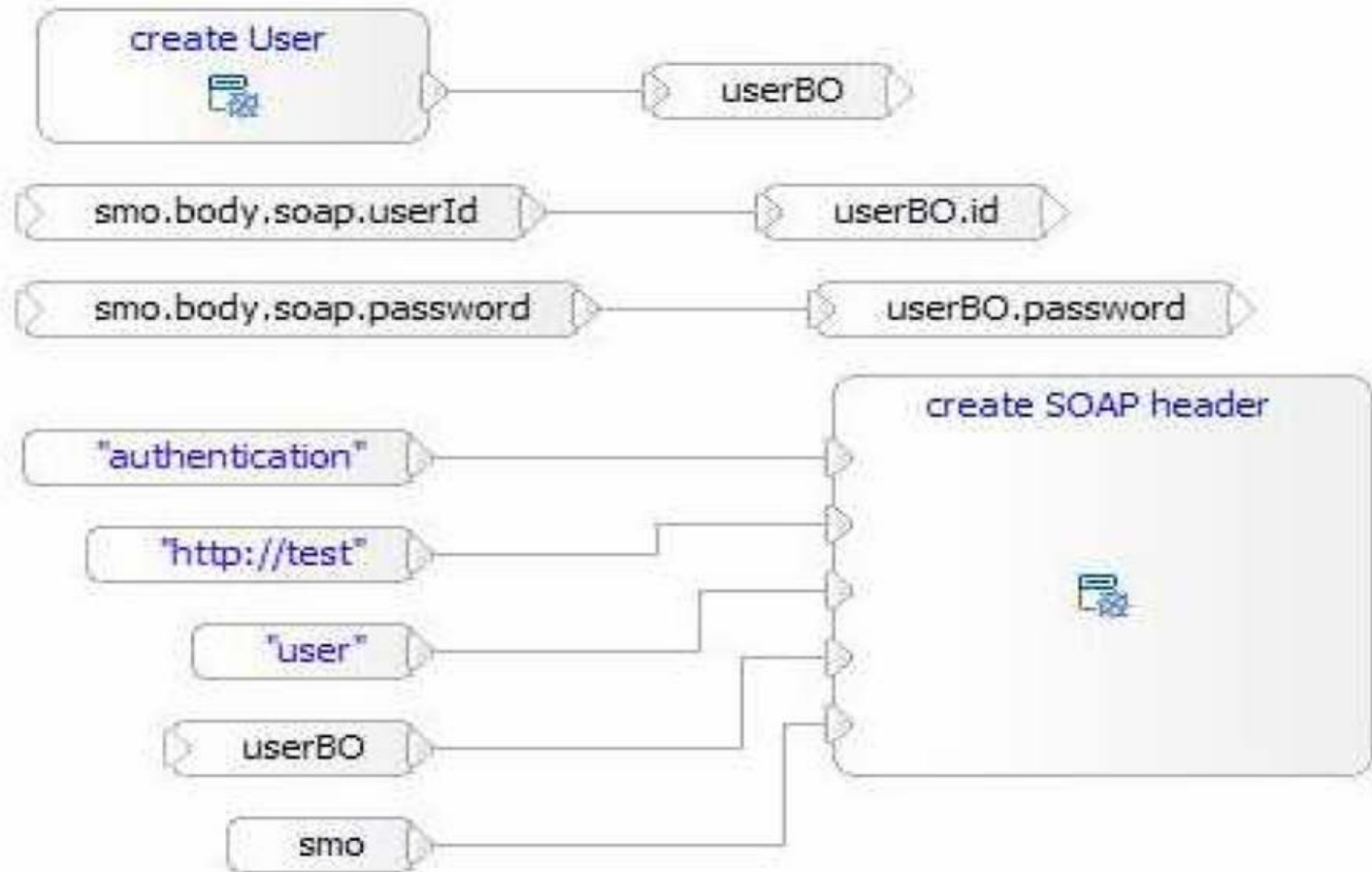
The screenshot displays the Human Task Editor interface. It is divided into two main sections:

- Variables:** A list of variables for the human task. The variable "Part of the input variable of this human task" is highlighted in blue.
- Specify XPath expression:** A tree view showing the structure of the input message. The tree is expanded to show the "substitution group : string" under "input1 : Person". The "substitution group : string" is highlighted in blue.

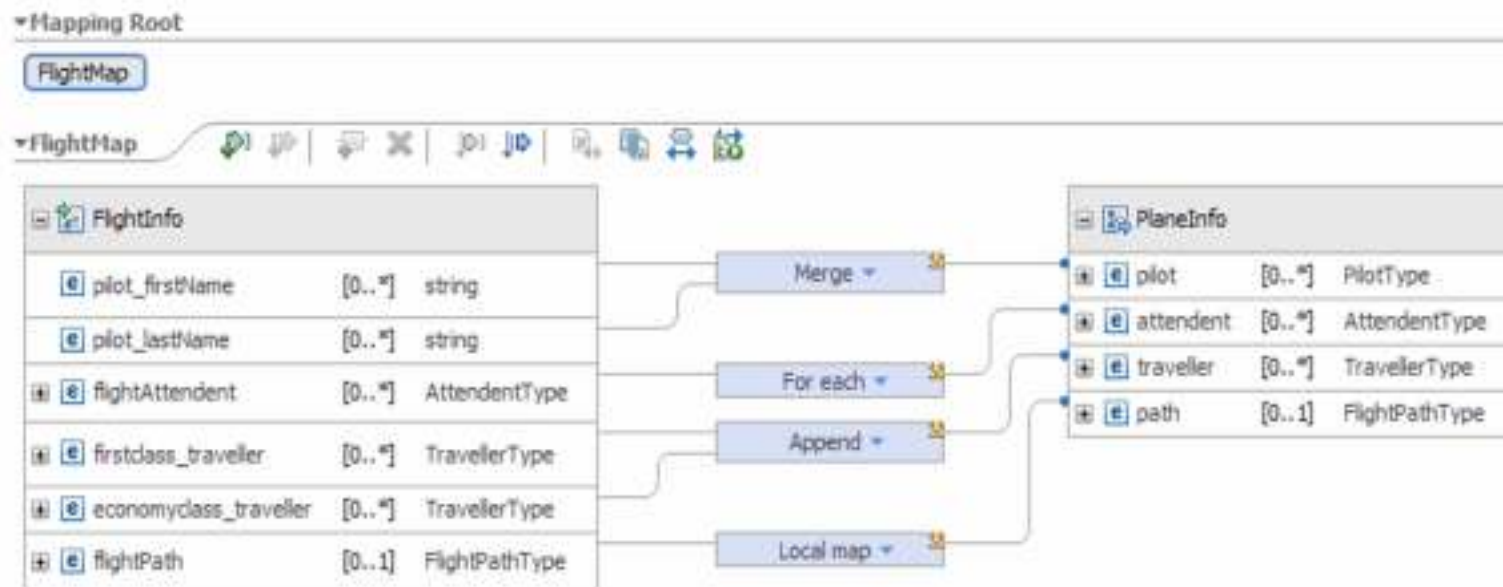
The tree structure is as follows:

- operation1Parameters : operation1
 - input1 : Person
 - substitution group : string
 - nom : string
 - nombre : string
 - namn : string
 - navn : string
 - name : string

SOAP header snippet



Business object map – Array support



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Monitor new features

- Monitor your data anywhere using dashboards on mobile devices, including BlackBerry
- Use WebSphere Business Monitor KPI Search gadget to search and retrieve values for individual key performance indicators (KPIs) from your desktop
- Templates for predefined scenarios are populated in Business Space when each product is installed
- WebSphere Business Monitor can now consume events from more sources than before, including the following product:
 - **WebSphere Message Broker**

WBM debug

- Using the debugger, you can submit events to your monitor model and manually step through the process to understand what happens when each event arrives
- For each inbound event definition in the monitor model, the debugger shows the processing steps that occur in each monitoring context, KPI context, or cube when an event is received, metrics and KPIs as they are updated, and outbound events as they are populated and emitted
- The debugger is an integrated tool that is installed as part of the Monitor test environment

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Thank You

