



IBM Software Group

WebSphere® Business Monitor V6.1

Process support



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This presentation introduces process support in WebSphere Business Monitor Version 6.1.

Goals

- Introduce WebSphere Business Monitor V6.1 process support

This presentation should give you a good understanding of process support in WebSphere Business Monitor version 6.1.

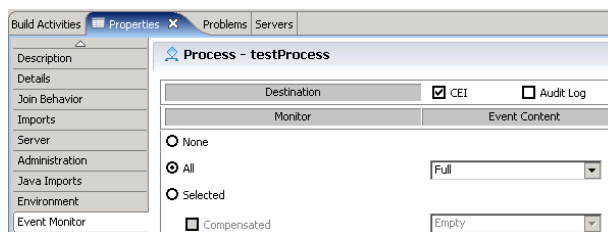
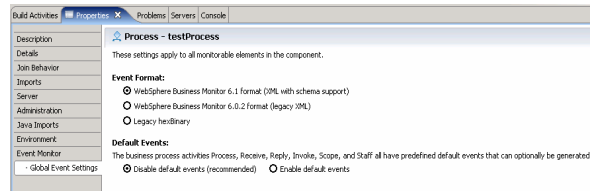
Agenda

- Event generation
- Model generation
- Model templates
- MQ Workflow (MQWF) emitter

You will review process support including, setting the event format in your processes, using the model generation wizard, selecting monitoring templates and using the MQWF emitter.

Event generation

- Select the global event format
 - ▶ 6.1 format
 - ▶ 6.0.2 format – you cannot generate a monitor model
- Select the events to generate

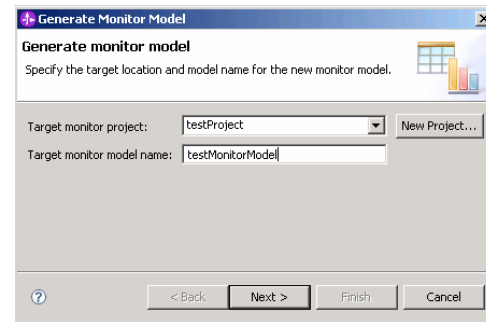


When you are ready to generate a monitor model for a process in WebSphere Integration Developer, you will need to set the global event format. For the 6.0.2 event format you cannot generate a monitor model. This option might be useful if you want to create a process which generates events in the 6.0.2 style. For monitoring 6.0.2 style events, you will need to use an existing monitor model from version 6.0.2 and import it into the version 6.1 monitor model editor.

You will also need to select the events that you want to generate from the process. Use the event monitor tab in the properties for the components that you want to enable for monitoring.

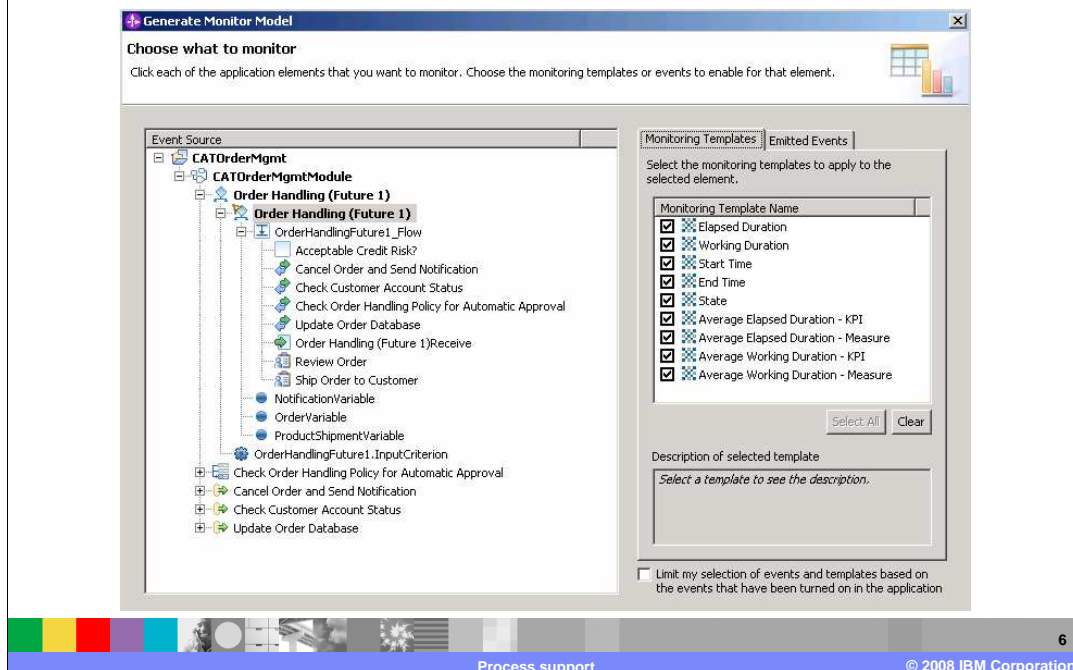
Monitor model generation wizard

- Step 1 – User right-clicks on a module project and chooses 'Monitor Tools'.
 - ▶ The menu option is available only at the module level, not at the level of individual components
- Step 2 – User specifies the target project and file name



After selecting the events in the process, you can right click on the module and select to generate the monitor model. In the wizard you will be prompted to enter the target monitor model project and monitor model name.

Monitored elements and templates



Next you are presented with a tree-based visualization of the application to be monitored, along with event and template information for each application element as it is selected. For any selected object in the diagram, the available templates and set of emitted events are displayed.

The monitoring templates tab shows all the monitoring templates that are applicable for the selected element. Choosing a template will create the appropriate monitoring constructs in the generated model. Elapsed duration measures the difference between any 'end' event for an event source and the 'start' event, including the time consumed during pause and suspend operations. Working duration measures the difference between any 'end' event for an event source and the 'start' event, not including time consumed during pause and suspend operations. State tracks the 'state' of an event source, such as started, stopped and failed. Start time captures the time at which the 'start' event arrived for the event source. Completion time captures the time at which the 'end' event arrived for the event source. Assigned user captures the user assigned to the human task event source. There are also measures and KPIs which are available for elapsed duration and working duration.

Emitted events

Generate Monitor Model

Choose what to monitor

Click each of the application elements that you want to monitor. Choose the monitoring templates or events to enable for that element.

Event Source

- CATOrderMgmtModule
 - Order Handling (Future 1)
 - OrderHandlingFuture1_Flow
 - Acceptable Credit Risk?
 - Cancel Order and Send Notification
 - Check Customer Account Status
 - Check Order Handling Policy for Automatic Approval
 - Update Order Database
 - Order Handling (Future 1)Receive
 - Review Order
 - Ship Order to Customer
 - NotificationVariable
 - OrderVariable
 - ProductShipmentVariable
 - OrderHandlingFuture1.InputCriterion
 - Check Order Handling Policy for Automatic Approval
 - Cancel Order and Send Notification
 - Check Customer Account Status
 - Update Order Database

Monitoring Templates | **Emitted Events**

Select the events to monitor from the events that are emitted by the selected element. If the event is used in a template, you cannot deselect it.

Emitted Event Name

- Order Handling (Future 1)ENTRY
- Order Handling (Future 1)RESTARTED
- Order Handling (Future 1)EXIT
- Order Handling (Future 1)SUSPENDED
- Order Handling (Future 1)RESUMED
- Order Handling (Future 1)TERMINATED
- Order Handling (Future 1)TERMINATING
- Order Handling (Future 1)DELETED
- Order Handling (Future 1)FAILING
- Order Handling (Future 1)FAILED
- Order Handling (Future 1)COMPENSAT...
- Order Handling (Future 1)CORMPFAILED...
- Order Handling (Future 1)CORRELATION
- Order Handling (Future 1)WJ_CREATED
- Order Handling (Future 1)WJ_DELETED

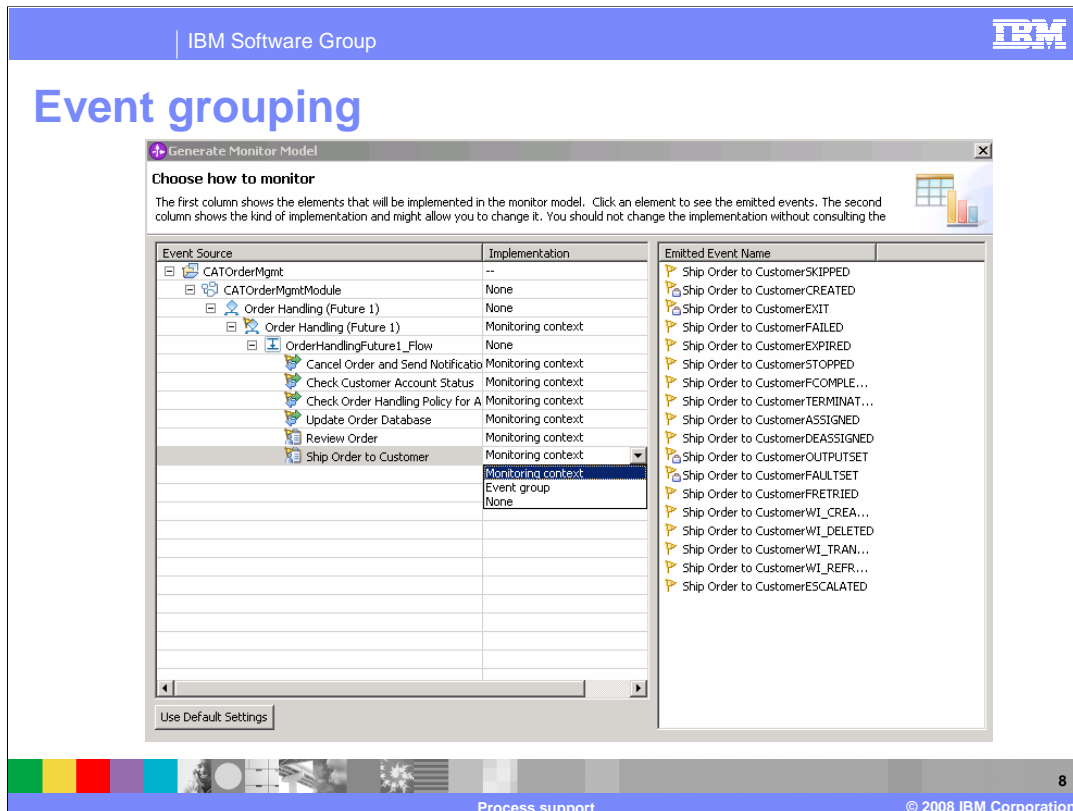
Select All Clear

Limit my selection of events and templates based on the events that have been turned on in the application

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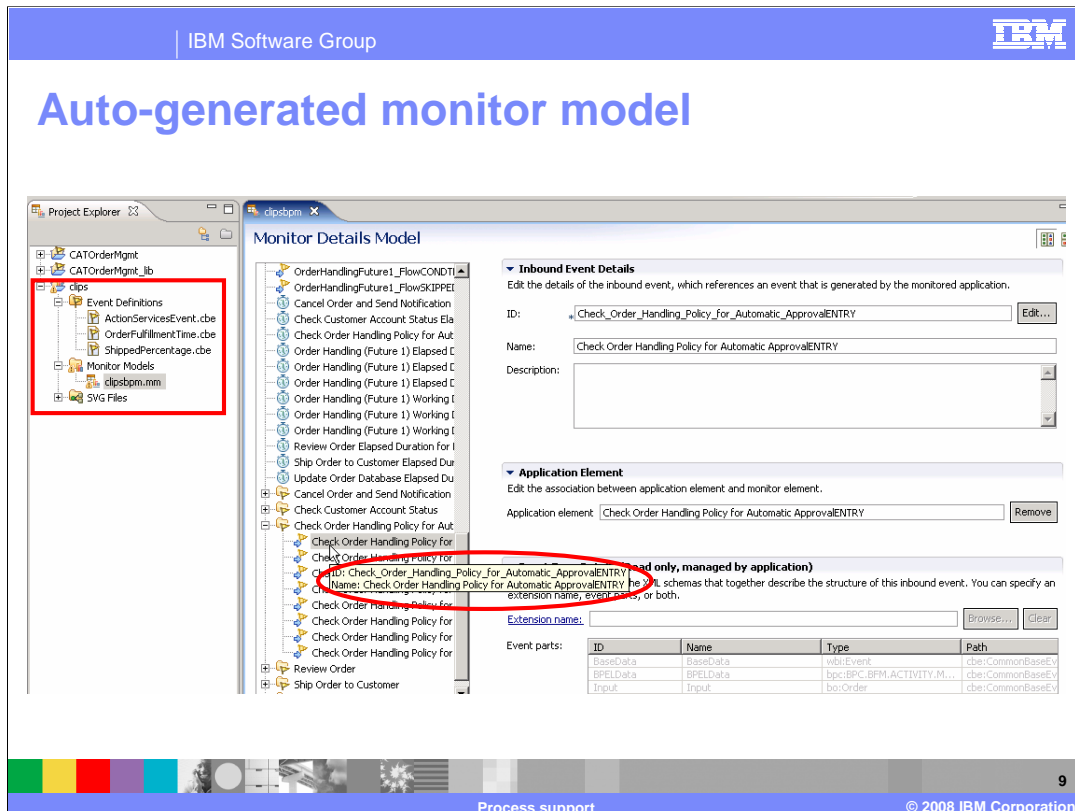
On the emitted events tab, you see all the events that the selected element is capable of emitting. These can be selected individually. Events that are required for the implementation of one or more selected templates cannot be deselected. All events are displayed here, even if they are not currently emitted as configured in the .mon file for the selected component. Choosing an event that is not currently being emitted will result in a validation error in the problems view of the monitor model.



The filtered module tree shows only those elements that have templates or events selected for monitoring based on the previous page. The second column provides you with the ability to customize the monitoring representation of each selected element by choosing the option from the combo box. Selecting **None** indicates that the element is to have no representation in the generated monitor model. Selecting **Monitoring context** means that a monitoring context will be created to represent the element. Selecting **Event group** means that an event group will be created for the element.

If you want to simplify the model, you can flatten the model by changing a monitoring context to an event group. In this example the process testProcess is creating a parent monitoring context, and the invoke is creating a child monitoring context. The child context creates additional correlation in the model. But if you know that the invoke is in a synchronous flow that does not require a child monitoring context, then you can choose to create an event group instead.

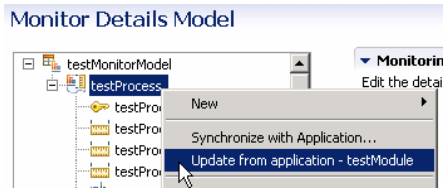
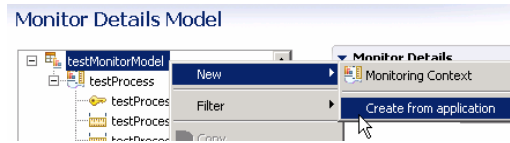
Events that will be contained within the selected element are shown in the emitted events list.



This screen capture shows the results of creating the auto-generated monitor model. You see the monitor model project and the monitor model in the project explorer. Note that the event definitions for the inbound events are stored in the event definitions folder. To see the event layout for the inbound events, click on an inbound event and take a look at the event type details. In this example you see an inbound event for an invoke entry. In the detail page on the right you see the event parts listed, including the third one which is the payload which is of type Order.

Creating model elements from application

- Elements related to an application can also be created within an existing monitor model
- This provides flexibility for you to add monitoring support for additional parts of an application after the initial monitor model generation
- Select 'New' → 'Create from application...' pop-up menu option in the model tree
- Select 'New' > 'Update from application...'



Just as the monitor model generation wizard produces a model whose elements are linked to parts of the application, elements related to an application can also be created within an existing monitor model. This provides flexibility for you to add monitoring support for additional parts of an application after the initial monitor model generation. You can select the New menu option in the navigation tree for the monitor model to create new elements from the application. You can also select the New menu option for a monitoring context to update it from the application.

WebSphere MQ Workflow emitter

- Support WebSphere MQ Workflow monitoring using Monitor V6.1
 - ▶ Augment WebSphere MQ Workflow to publish common base events to CEI
 - Enhance WebSphere MQ Workflow V3.6 to emit container data in audit trail – WebSphere MQ Workflow V3.6 SP6
 - WebSphere MQ Workflow Event Converter – provided as support pack
 - Convert audit data into common base event format and publish to CEI
 - ▶ New utility to help to create monitor model consuming the WebSphere MQ Workflow common base event events
 - Import flow definition language (FDL) then auto-generate event definitions and monitor model
 - Provided with Monitor 6.1 as a plug-in
 - Documented in the Monitor information center
- Offer end-to-end solution for modeling, runtime and monitoring with Modeler V4, WebSphere MQ Workflow V3.6, WebSphere Business Monitor V6.1
- Coexist with existing customer developed monitoring solution for WebSphere MQ Workflow V3.6

The WebSphere MQ Workflow emitter is new in this release and allows you to monitor WebSphere MQ Workflow applications using Monitor V6.1 and consists of three components. You will need WebSphere MQ Workflow V3.6 SP6 which includes enhancements which provide emission of container data to the audit trail. You will need the event converter which is provided as a support pack. It takes the audit data and converts it to common base event format and submits it to CEI. Finally you will need the monitor model utility which allows you to import FDL, generate event definitions and auto-generate a monitor model.

Summary

- You reviewed the process support provided by WebSphere Business Monitor V6.1

In this presentation you have reviewed the process support provided by WebSphere Business Monitor version 6.1.

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