

# Monitor Business Process Deadline Events

Release 5.2



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Note -						
Note  Before using this information and the product it supports, read the information in "Notices" on page 9.						

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## **Monitor Business Process Deadline Events**

IBM® Sterling B2B Integrator provides several ways to monitor business process deadline events.

#### You can:

- Set up an event listener in your environment to get notifications.
- Run offline notifications (e-mail or file), when Sterling B2B Integrator goes
  offline.
- View events on the Operator Console (dashboard view). See the performance management documentation for more information on using the Operator Console.

In Sterling B2B Integrator, business process deadline events are generated if a business process does not reach the completed or terminated state before its deadline is reached. Business process states include:

- Active (running or queued)
- · Waiting or Waiting on IO
- Halted, interrupted\_man, interrupted\_auto
- Terminated or Completed

The bpdeadline.log file has been added to the System Logs. You can access this log from the **Operations** > **System** > **Logs** > **Workflow Deadline**.

## Types of Notification for Business Process Deadlines

Sterling B2B Integrator provides the following two types of notifications:

- Batch notifications, which consolidates notifications by the business process state, then consolidates:
  - All first notifications into a single event
  - All second notifications into a single event
  - All final notifications into a single event

**Note:** The default for the amount of business processes that can be batch notified is set at 100.

• Single notifications, which provides a single notification for each first, second, and final notifications per business process

### Offline Notifications for Business Process Deadlines

You can have offline notifications, when Sterling B2B Integrator goes offline, for example to apply a maintenance patch. You can set up your offline notifications to have either:

- All notifications sent to you in e-mail. E-mail addresses are defined in the bpdeadline.properties file.
- All notifications put in a text file located at:
  - For UNIX, install\_dir/deadlines
  - For Windows, Drive:\install\_dir\SI\deadlines

### **Business Process Deadline Notifications**

Business process deadline notifications are defined during the business process check-in process (Deadline Setting page). To define deadline notifications for business processes you must:

- · Clear the Do not set deadline
- Enter the Complete by Deadline hours
- Enter the First Notification Hours (hours and minutes)
- Enter the Second Notification Hours (hours and minutes)

Notifications are provided at the following intervals:

- 1 First notification
- 2 Second notification
- 3 Deadline notification completed (final)

**Note:** If Sterling B2B Integrator is offline during a notification interval, when Sterling B2B Integrator comes back online, you will get at least one final notice. See "Offline Notifications for Business Process Deadlines" on page 1.

### **Example of a Business Process Event Deadline**

An example might be, if a business process deadline is reached when it is executing a service that consumes lots of time (like translation) or if the business process was stopped by an error or terminated, interrupted and deadlines were not issued and the business process owner was not alerted. This could cause businesses to run out of inventory or miss shipments, eventually impacting their bottom line profits. In this case, you might want to set up an event listener, so that you are notified when the inventory is low.

## **Example of Configuring the Event Listener for E-mail Notifications**

You can set up an event listener in your environment to get business process deadline notifications by e-mail. The following is an example of how to set up an event listener for notifications by e-mail. The following properties are mentioned in the lweventrules.properties file. Define the following rules in the customer\_overrides.properties file:

```
id.rule11=BATCH FIRST NOTIFY
levels.rule11=Normal
name.rule11=DEADLINE BATCH FIRST NOTIFY LEVEL Normal
expression.rule11= contains(ExceptionLevel, 'Normal') and
contains(eventType,'Workflow.DeadlineEvent.BATCH_FIRST_NOTIFY')
action.rule11.1=java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEve
ntRunnable
id.rule21=BATCH SECOND NOTIFY
levels.rule21=Abnormal
name.rule21=DEADLINE BATCH SECOND NOTIFY LEVEL Abnormal
expression.rule21= contains(ExceptionLevel,'Abnormal') and
contains(eventType,'Workflow.DeadlineEvent.BATCH SECOND NOTIFY')
action.rule21.1=java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEve
ntRunnable
id.rule31=BATCH FINAL NOTIFY
levels.rule31=Exceptional
name.rule31=DEADLINE_BATCH_FINAL_NOTIFY_LEVEL_Exceptional
expression.rule31= contains( ExceptionLevel, 'Exceptional') and
contains(eventType, 'Workflow.DeadlineEvent.BATCH FINAL NOTIFY')
action.rule31.1=java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEve
ntRunnable
```

```
id.rule41=FIRST NOTIFY
levels.rule41=Normal
name.rule41=DEADLINE FIRST NOTIFY LEVEL Normal
expression.rule41= contains(ExceptionLevel, 'Normal') and
contains(eventType,'Workflow.DeadlineEvent.FIRST NOTIFY')
action.rule41.1=java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEve
ntRunnable
id.rule51=SECOND NOTIFY
levels.rule51=Abnormal
name.rule51=DEADLINE SECOND NOTIFY LEVEL Abnormal
expression.rule51= contains(ExceptionLevel, 'Abnormal') and
contains(eventType,'Workflow.DeadlineEvent.SECOND NOTIFY') action.rule51.1=
java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEventRunnable
id.rule61=FINAL_NOTIFY
levels.rule61=Exceptional
name.rule61=DEADLINE FINAL NOTIFY LEVEL Exceptional
expression.rule61= contains(ExceptionLevel, 'Exceptional') and
contains(eventType,'Workflow.DeadlineEvent.FINAL NOTIFY')
action.rule61.1=java:com.sterlingcommerce.woodstock.event.listeners.rule.EmailEve
ntRunnable
```

**Note:** You could choose to be notified in a different manner, by replacing the following rule:

action.rule31.1=java:com.sterlingcommerce.woodstock.event.listeners.rule
The rule mentioned above can be replaced with the following:
action.rule31.1=java:com.sterlingcommerce.woodstock.dmi.routing.RouterEventNotifier

You can configure dbDeadLineThread=true (default value is false) in noapp.properties\_platform\_ifcresources\_ext. You can override the same property in the customer\_overrides.properties file.

To receive deadline notification for a business process, you should edit the business process to be monitored, enable business process deadline settings, and configure first notification and second notification times appropriately.

## **Example of e-mail Notification for Single Business Process**

The following is an example of an e-mail notification for a business processed called looper.

eventType: Workflow.DeadlineEvent.SECOND\_ NOTIFY.1 ExceptionLevel: Abnormal timestamp: 1158764871321 datestamp: 2006.09.20 11:07:51 EDT STATUS: secondNotify BP\_STATE: ACTIVE EVENT\_TIME: Wed Sept 20 11:07:51 EDT WFD\_NAME: looper EVENT\_INFO: Firing deadlined bp BP ID: 8239

## **Example of e-mail Notification for Batch Business Processes**

The following is an example of an e-mail notification for batched notification. Two business processes were running, looper and inventory, and they both were in the active state.

eventType: Workflow.DeadlineEvent.BATCH\_FINAL\_NOTIFY.1 ExceptionLevel: Exceptional timestamp: 1160146355843 datetime: 2006.10.06 10:52:35 EDT STATUS: FinalNotify

STATUS: FinalNotify BP\_STATE: ACTIVE

## Example of bpdeadline.log

The following is an example of a bpdeadline.log:

```
[2006-09-22 09:24:891] DEBUG 000110030038 WORKFLOW.DEADLINE.DED_Thread "ArchiveInterval in hrs: 10.0 last startTime ms =115831442870 current time ms=115931442882 [2006-09-22 09:24:892] DEBUG 99999999999999999 WORKFLOW.DEADLINE.DED_Thread1] Kickoff deadline Archive thread [2006-09-22 09:24:905] DEBUG 000110030041 WORKFLOW.DEADLINE.DED_Thread1] Fire Deadline Interval: 20000 laststartTime=1158931442870 current time= 115893144870 [2006-09-22 09:24:02.964] DEBUG 000110030009 WORKFLOW.DEADLINE.DED_ArchiveFindWFs1 No archive bp found in bp_deadline table [2006-09-22 09:24:03.075] DEBUG 000110030029 WORKFLOW.DEADLINE.DED_BasedBindBPs1deadline events: {}
```

## **Example of Offline Notification By E-mail**

The following is an example of offline e-mail notification:

```
To: System Administrator
Subject: Business Process offline Deadline Notification

OffLine DeadLine Notify Fri Oct 06 12:25:23 EDT 2006 DeadLine :FirstNotify DeadLine Notify for wfs in state:ACTIVE
WF ID:8012
```

## **Example of Offline Notification File**

The following is an example of offline notification that is put in a file:

```
OffLine DeadLine Notify Fri Oct 06 12:25:23 EDT 2006

Deadline :FinalNotify
Deadline Notify for wfs in state:ACTIVE
WF_ID:1006
```

## Setting up Batch Notifications for Business Process Deadlines

### About this task

To set up batch notifications for your business processes:

### **Procedure**

- 1. Add the following data to the customer\_overrides.properties file using a text editor (For further information, see the documentation on overriding property files.).
  - noapp.dbDeadLineThread=true
  - bpdeadline.deadlinePerBP=false
  - bpdeadline.includeBPstate=true

**Note:** The default for bpdeadline.includeBPstate = false. By setting this to true, when the notification is fired, the event contains the most current state of the business process.

- bpdeadline.EmailTo= (Use this parameter to define the e-mail addresses to be notified. You can enter multiple e-mail addresses by using a comma (,) to separate them.)
- 2. Save and close the customer\_overrides.properties file.
- 3. Stop and restart Sterling B2B Integrator in order for your customer property overrides to take effect.
- 4. Run the following command:
  - · For UNIX, setupfile.sh
  - For Windows, setupfiles.cmd

# Setting up for Single Notifications for Business Process Deadlines About this task

To set up single notifications for your business processes:

### **Procedure**

- 1. Add the following data to the customer\_overrides.properties file using a text editor:
  - noapp.dbDeadLineThread=true
  - bpdeadline.deadlinePerBP=true
  - bpdeadline.includeBPstate=true
  - bpdeadline.EmailTo= (Use this parameter to define the e-mail addresses to be notified. You can enter multiple e-mail addresses by using a comma (,) to separate them.)
- 2. Save and close the customer\_overrides.properties file.
- 3. Stop and restart Sterling B2B Integrator in order for your customer property overrides to take effect.
- 4. Run the following command:
  - For UNIX, setupfile.sh
  - For Windows, setupfiles.cmd

## Setting Up Offline Notifications To Be Sent in E-mail

### **About this task**

**Note:** Perform steps 1 to 4 prior to Sterling B2B Integrator being taken offline.

### **Procedure**

- 1. Add the following data to the customer\_overrides.properties file using a text editor:
  - noapp.dbDeadLineThread=true
  - bpdeadline.deadlinePerBP=false
  - bpdeadline.includeBPstate=true
  - bpdeadline.dbDeadlineThreadOffline=true
  - bpdeadline.offlineEmail=true
  - bpdeadline.updateStatus=true

- bpdeadline.EmailTo= (Use this parameter to define the e-mail addresses to be notified. You can enter multiple e-mail addresses by using a comma (,) to separate them.)
- 2. Save and close the customer\_overrides.properties file.
- 3. Stop and restart Sterling B2B Integrator in order for your customer property overrides to take effect.
- 4. Run the following command:
  - For UNIX, setupfile.sh
  - For Windows, setupfiles.cmd
- 5. After Sterling B2B Integrator is offline, run the following command to start offline notifications:
  - For UNIX, install/bin/bpDeadlineOfflineNotification.sh
  - For Windows, install/bin/bpDeadlineOfflineNotification.cmd

**Note:** Depending on the amount of time between when Sterling B2B Integrator goes offline and you run this offline notification command, you may miss a deadline notification.

6. Check your e-mail to verify that you have received any deadline notifications.

**Note:** You may want to execute the command in step 5 again to generate another notification e-mail.

**Note:** Since the bpdeadline.updateStatus=true in the customer\_override.properties, you may not get the final notification when Sterling B2B Integrator comes back online.

## Setting Up Offline Notifications to be Saved in a File

### About this task

To set up offline notifications to be saved in a file:

### **Procedure**

- 1. Add the following data to the customer\_overrides.properties file using a text editor:
  - noapp.dbDeadLineThread=true
  - bpdeadline.deadlinePerBP=false
  - bpdeadline.includeBPstate=true
  - bpdeadline.dbDeadlineThreadOffline=true
  - bpdeadline.offlineFile=true
  - bpdeadline.updateStatus=true

**Note:** Since the bpdeadline.updateStatus=true, you may not receive the final notification when Sterling B2B Integrator comes back online.

- 2. Save and close the customer\_overrides.properties file.
- **3**. Stop and restart Sterling B2B Integrator in order for your customer property overrides to take effect.
- 4. Run the following command:
  - For UNIX, setupfile.sh
  - For Windows, setupfiles.cmd

- 5. After Sterling B2B Integrator is offline, run the following command to start offline notifications:
  - For UNIX, install/bin/bpDeadlineOfflineNotification.sh
  - For Windows, install/bin/bpDeadlineOfflineNotification.cmd

Note: Depending on the amount of time between when Sterling B2B Integrator goes offline and you run this offline notification command, you may miss a deadline notification.

- 6. Check the contents of the file located at:
  - For UNIX, install\_dir/deadlines
  - For Windows, Drive:\install\_dir\SI\deadlines

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