Integration Framework for SAP Business One
SAP Business One Event Sender Setup

Global Roll-out

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The SAP Business One event sender setup is an application that allows for the configuration of the SAP Business One event sender. The event sender picks up events from the SBO-COMMON SEVT table, forwards them to the integration framework, and then deletes the events from the SEVT table.

1 WHAT THE EVENT SENDER DOES AND WHY INTEGRATION USES IT

The installation of the integration framework for SAP Business One also installs the SAP Business One event sender. The installation of both components is the prerequisite for event creation in SAP Business One.

When data is added, changed, or deleted in SAP Business One company databases, SAP Business One creates events in the SEVT table of the SBO-COMMON database. The events contain the company identifier, the object ID and information whether data is new, changed, or deleted. The event sender regularly picks up events, forwards them to the integration framework and deletes them from the SEVT table.

Events are notifications that the integration framework is interested in. Active scenario steps with the SAP Business One inbound channel subscribe to events, for example, to 2 for business partners, to 4 for items, or to 13 for invoices, and so on. If such events reach the integration framework for a company that is a sender in the integration scenario, the active scenario step starts message processing. SAP Business One inbound retrieves the data matching the event from the company database. For data retrieval, the framework uses the interface that is defined in the inbound channel, either the DI API, the service layer or JDBC. Then, the framework processes the message based on definitions in the scenario step.

The event sender setup is an application that allows configuring the event sender. Many parameters are predefined, and you do not need to do anything. Browse through the wizard and check the connections. Most importantly, use the event sender setup to reduce the number of events created in SAP Business One by filter definitions.

2 USE THE EVENT SENDER SETUP

As of SAP Business One 9.3 PL06, we recommend using the event sender setup that is part of the integration framework. To open the event sender setup, logon to the integration framework and choose Tools → Event Sender.

If the event sender and the integration framework are installed on separate machines, use the event sender setup that you can call from the start menu choosing Integration Framework for SAP Business One → SAP Business One Event Sender Setup.

2.1 Step 1: Connect to SAP Business One

All settings are preconfigured. Please check the following:

• (1) The DB Server Name value must be identical with the b1Server value in SLD for the company databases and SBO-COMMON.
• (2) Click Test Connection to ensure that the connection is available.
• (3) Save your settings and click Next.
2.2 Step 2: Configure Event Sender Parameters

All settings are preconfigured. Please note:

- (1) Every 3 seconds, the event sender retrieves and deletes events from the SEVT table. The idle time is set to 3 seconds by default. If the event sender does not find entries for company databases or there is a connection issue, the event sender waits for the idle time value and then starts the retrieval process again.
- (2) Each time, the event sender retrieves and deletes 10 events from the SEVT table. Depending on your active scenarios, you can adjust the value to speed up event processing. If you choose a value that is too high, incoming events fill up the queues.
- (3) Save your settings and click Next.

2.3 Step 3: Configure Integration Framework Parameters

All settings are preconfigured. Please note:

- (1) The Username and Password entries must be identical with the runtime user entries defined in Maintenance → User Admin → [Runtime Users]. The runtime user must be active.
- (2) Click [Test Connection] to test the connection to the integration framework.
- (3) Save your settings and click Next.
2.4 Step 4: Choose Company Databases

After the installation of the integration framework and the event sender, SAP Business One company databases create events by default. To reduce the number of created events, do the following:

- (1) Deselect company databases that do not participate in data exchange through the integration framework. Data changes in the companies no longer create events in the SEVT table.
- (2) To reduce the event generation further for databases that exchange data through the integration framework, click [Generator].
- (3) The generator displays scenario packages available in the integration framework. Active scenario packages are selected assuming that they need the incoming events. Select further packages that you want to use or deselect scenario packages that you do not use.
- (4) Click [Generate] and the generator displays events required for the selected packages.
- (5) Click [Apply] and the generator displays the SAP Business One company databases.
- (6) Select databases that are going to get the event list in the include filter list. Here, you can even select company database that you excluded from event creation. Company databases that already contain settings in the exclude filter list are disabled.
• (7) Click [OK] and the generator writes the event numbers to the Include List of B1 Objects field.

• (8) To display filter details for a company database, click [Event Filter]. You can either use the include or the exclude list to define filter creating limitations.

• (9) To add entries to the Exclude B1 User list, enter the user name, not the user code. To additionally create events for journal entries, select the checkbox.

• (10) To use the calculations of the event sender generator, click [Generator].

• (11) Select the packages that should be included in the event filter generation. Active packages are selected by default.

• (12) (13) Click [Generate] and [Apply].

• (14) In the Select Companies window, select the company databases for which you want to set the filters.
• Save your settings, close the window and click Next.

2.5 Step 5: Summary Information
The event sender setup displays the summary of your changes.
• (1) Click Deploy.

2.6 Stop and Start the Service and the SAP Business One Client.
• (1) (2) To activate the changes, stop and start the event sender service and the SAP Business One client.
3 WHERE EVENT FILTERING HAPPENS

Event filtering can happen in the SEVT table of the SBO-COMMON database, in the event sender and in the integration framework.

3.1 Event Filtering in the SEVT Table

- If you deselect a company database from the list in the event sender setup to exclude it from event generation, you can significantly reduce the number of events.
- With settings in the Include List of B1 Object(s), you reduce the event creation for the company database to the objects defined in the field. For all other objects, SAP Business One does not create events in the SEVT table.

3.2 Event Filtering in Event Sender

- With settings in the Exclude List of B1 Object(s), events are created in the SEVT table. The event sender filters the events and does not forward them to the integration framework.
  As of SAP Business One 9.3 PL05, the separate event sender Java application no longer creates the events in the SEVT table.
- With settings in the Exclude List for B1 Users, events are created in the SEVT table, but the event sender filters the events.

3.3 Event Filtering in the Integration Framework

The B1i technical user is available in each SAP Business One company database. The user adds or changes data on behalf of the integration framework. The integration framework default settings ensure that changes happening in company databases caused by the B1i user do not trigger any scenarios in the integration framework.
- Choose Maintenance → B1 Event Filter to see that the filter for the B1i user is switched on by default. In the SLD entries for the SAP Business One company databases, you can see that the B1i user is used for the connection.

- You can switch off the filter. But then, make sure to reduce the number of events, for example in the following way:
For all SAP Business One company databases, the integration framework picks up updates of 4 (items) and 17 (purchase orders). All other events created by the B1i user are ignored. Active and subscribed scenario steps are going to pick up the events and start processing.

4 FURTHER FUNCTIONS AROUND SAP BUSINESS ONE EVENTS

4.1 SAP Business One Event Generator

The SAP Business One event generator function allows you to generate events directly in the integration framework without affecting the SEVT table or the event sender. Use the function, for example, to synchronize mass data. Have an integration scenario available that picks up the events and processes the data to receiver systems.

To use the function, choose Tools → B1 Event Generator.

![Event Generator Interface]

The settings create events for added items from a company database and displays the result.

![Event Results]

![Event Results Table]
4.2 SAP Business One Event Subscriber

Use the SAP Business One event subscriber to dispatch events to other integration frameworks.

In the integration framework, choose *Maintenance → Cfg B1 Event Subscriber.*

1. Click the *Create* button and enter the connection parameters to the remote integration framework.
2. Select the remote host that you created and test the connection.
3. Click *Subscribers* and enter, for example, the SLD system identifier for the company database, the object identifier and the task.

In this example, all events for new items coming from the 0010000104 company database are forwarded to the remote integration framework. You can display the incoming events in both integration frameworks, in the SAP Business One event monitor.

4.3 SAP Business One Event Monitor

To monitor incoming SAP Business One events, choose *Monitoring → B1 Event Monitor.* The monitor is switched off by default. Switch on the monitor and display the incoming events.

Events can have the following status information:

- **Success:** The integration framework can process the information
- **Filtered:** There is no scenario step subscribed to the incoming event
- **Failure:** Scenario steps that subscribe to the event are not active. You can edit and resend such events.