

SAP Business One Event Sender Introduction and Optimization

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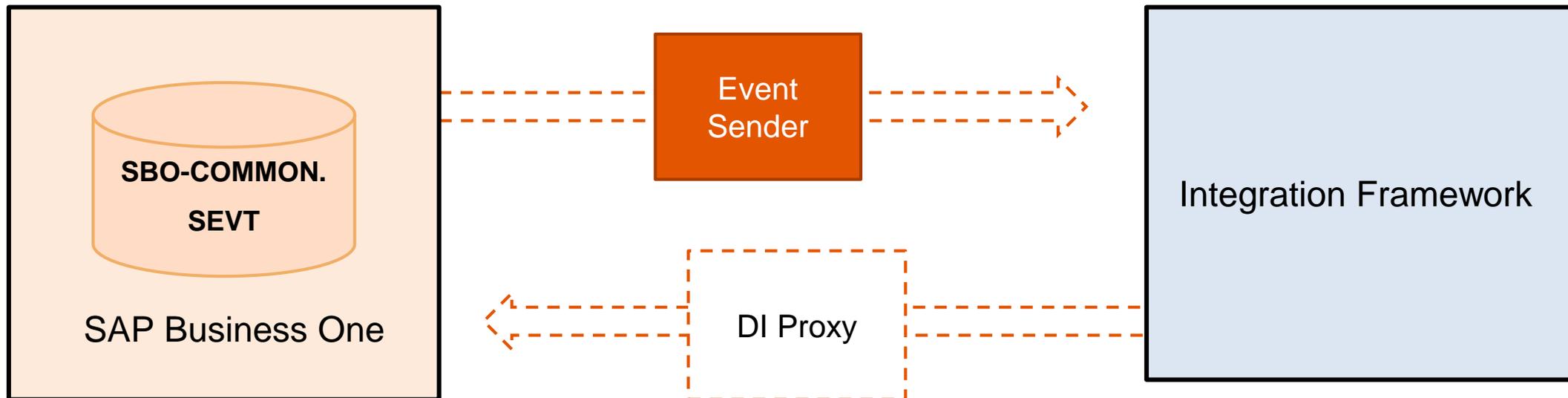
Agenda

- ❑ **Event Sender Component Introduction**
- ❑ **Event Sender Setup**
- ❑ **B1 Event Filter**
- ❑ **B1 Event Filter Generator**
- ❑ **B1 Event Subscriber**
- ❑ **B1 Event Generator**
- ❑ **Troubleshooting Tool**
- ❑ **Optimization**

Event Sender Component Introduction

Event Sender Component Introduction

When an SAP Business One user inserts, updates, or deletes data, SAP Business One stores events in *SEVT* table. Event Sender component picks up the events from *SEVT* table and sends events to Integration Framework (B1i).



Event Sender Component Introduction

Prerequisites

- **You have installed SAP Business One, SAP Business One Integration Component (B1i), SAP Business One Event Sender.**
- **You have an active scenario package in B1i listening to the event.**
 - Scenario step inbound channel is SAP Business One, for event xxx.
 - B1 company is assigned as sender company.
 - Scenario package is active.

[→ Demo](#)

Event Sender Setup

Event Sender Setup

Run event sender setup as admin user:

..\SAP\SAP Business One Integration\EventSender\Setup

Event Sender Setup – Step 1/5

EventSender setup

Step 1/5: Connect to SAP Business One

Business One DB Type
Choose a DB Type: Microsoft SQL Server 2012

DB Connection Settings

DB Server Name: mo-5480d36ee.mo.sap.corp Port: 1433

Setup DB Account: sa Password:

Running DB Account: sa Password:

Trusted connection

Cancel Back Next

DB Server Name =
b1Server

COCKPIT **SLD** MAINTENANCE SCENARIOS MONITORING TOOLS HELP

SLD

- Create System
- Settings
- SysType Properties
- Help
- B1i Server
 - SBODemoUS
 - WSforSWF
 - SBODemoUS2
 - HTTPforSWF
 - HTTP-B1System
 - XMLFileSystem
 - WSforMobile
 - HAnyforXcelsius
 - SBO-COMMON
 - HAnyforCampaignMana...
 - HAnyforRFQ

SBODemoUS

General Information

Type: B1.9.0

Name: SBODemoUS

ID: 0010000100

Common Fields

b1Server: mo-5480d36ee.mo.sap.corp

company: 210098

Connectivity List (Active)

B1DI

b1Server: mo-5480d36ee.mo.sap.corp

licenseServer: 10.97.185.142:30000

Event Sender Setup – Step 2/5

EventSender setup

Step 2/5: Configure EventSender Parameters

Event Table Location

Choose a Database for Event Table: SBO-COMMON

Monitor Setting

Idle Time (millisecond): 3000

Batch Count: 10

Cancel Back Next

Every 3 sec, ES retrieve and delete data from SEVT table

Each time ES retrieve and delete 10 events from SEVT table

Event Sender Setup – Step 3/5

EventSender setup

Step 3/5: Configure B1i Parameters

Sending Method

Direct

Distribute

General B1i Settings

Protocol Type: http

Authentication Type: Basic

B1i Server Host: localhost

B1i Server Port: 8080

Proxy Host:

Proxy Port:

User Name: B1iadmin

Password:

Test Connection

EventSender

Connect to the B1i server successfully

Ok

Cancel Back Next

B1iadmin user must be active
B1i → Maintenance → User Administration → Runtime User

B1iP User Administration - users_ipo.xml

B1iP User Administration

User Table	users_ipo.xml
Last Changed	2016-04-18_04:33.24
Initiator	[ONUP]B1iP_Xcellerator
Minimum Password Length	
Days until Password Expires	
Maximum Number of Subsequent Logon Failures	

Add User Change Policies

User	
Name	B1iadmin
Language	en
Active	true
Password expires	20??-??-??_??:??:??

Toggle Activation Change Password Delete

Event Sender Setup – Step 4/5

EventSender setup

Step 4/5: Choose the Company Databases

Company Database Name	Integ Server Inbound
<input checked="" type="checkbox"/> SBODEMOUS	Default Inbound
<input checked="" type="checkbox"/> 210098	Default Inbound

To prevent event creation for

B1 Event Filter Configuration

Company Database Name: SBODEMOUS

Include List B1 Object(s): 2,4,17

Exclude List B1 Object(s):

Exclude List B1 User:

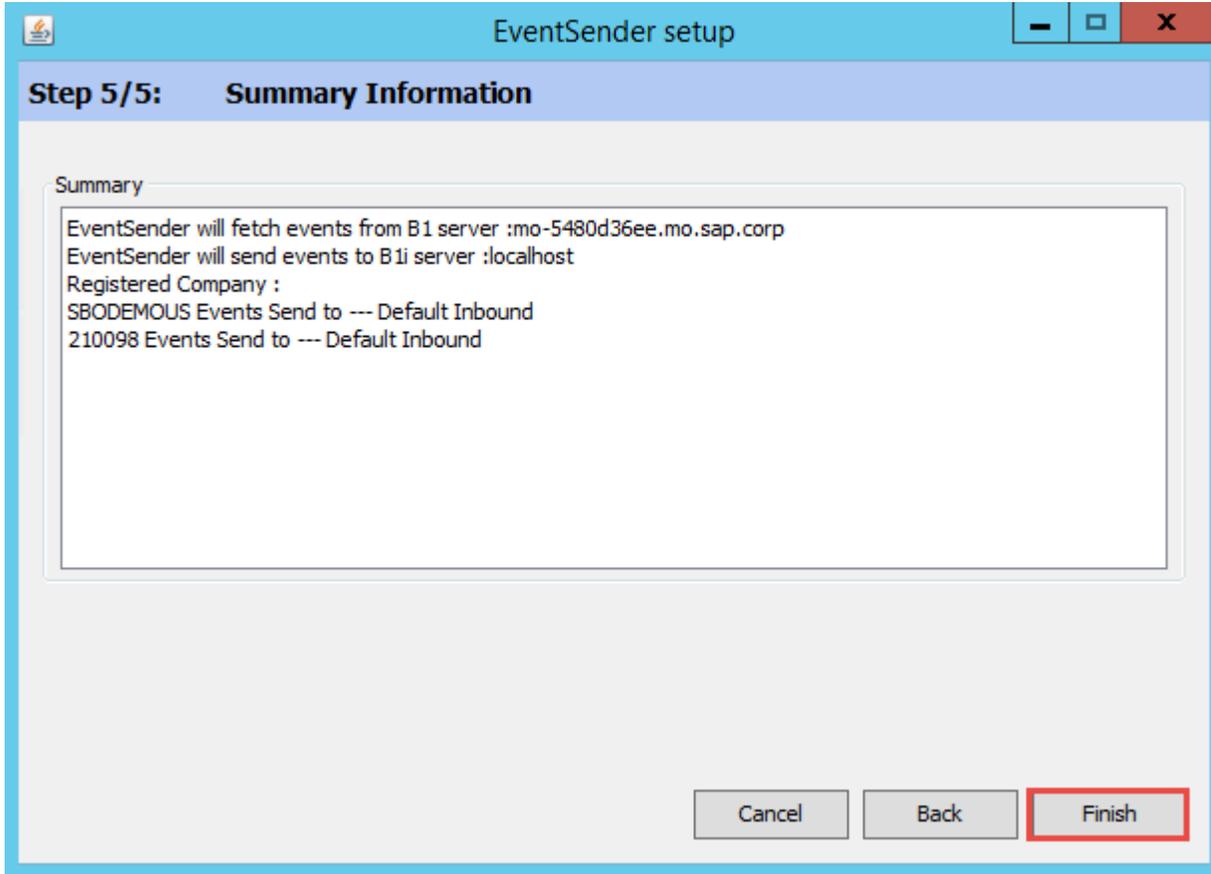
Create Complete Journal Entry Events

Set up event filter per company.

Maintain “include object list” or “exclude object list” and “exclude user” to reduce load on server side

Tick the check box when you handle JE events

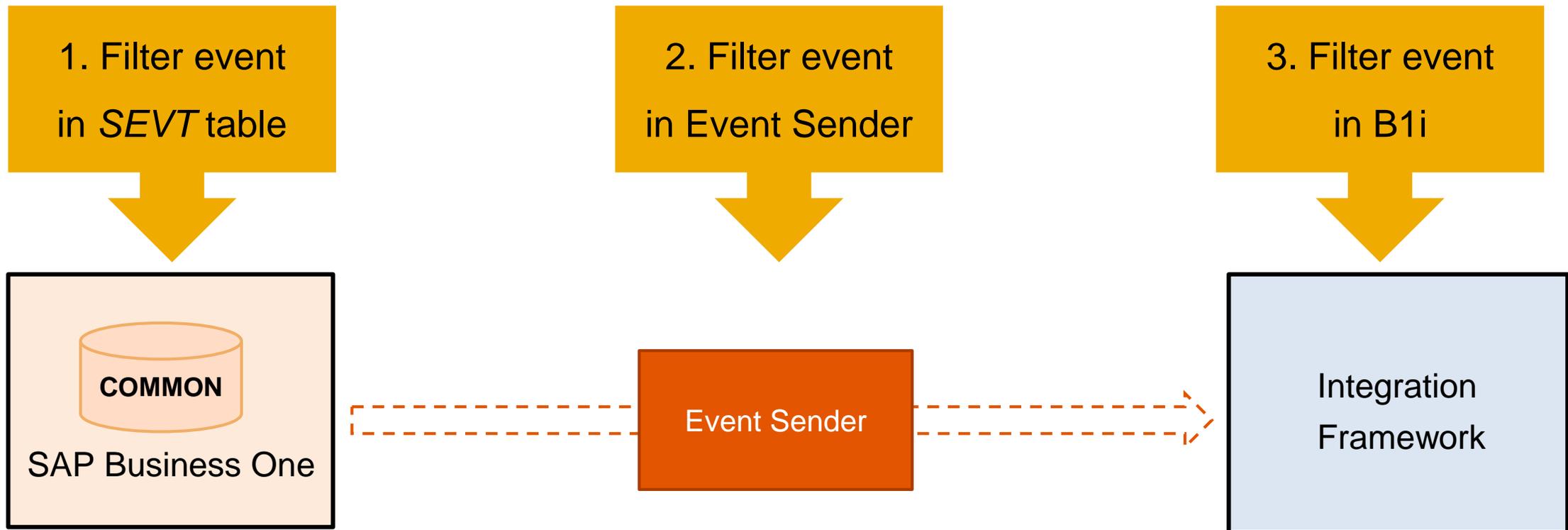
Event Sender Setup



You must **restart** event sender service after change configuration!

B1 Event Filter

B1 Event Filter - Three Layers of Filter Events



B1 Event Filter – Test Case 1: filter event in SEVT table

Setting

The screenshot shows the 'B1 Event Filter Configuration' dialog box. The 'Company Database Name' is set to 'SBODEMOUS'. The 'Include List B1 Object(s)' field contains the values '2,4,17'. The 'Exclude List B1 Object(s)' and 'Exclude List B1 User' fields are empty. There is an unchecked checkbox for 'Create Complete Journal Entry Events'. The 'Cancel' and 'OK' buttons are visible at the bottom.

DB Info

The screenshot shows the results of a SQL query. The query is `select * from CTNS` and `select ESEnabled from CINF`. The results are displayed in a table with columns: AbsId, ObjectId, EnableAsyN, EnableTn, and EnablePTn. The first three rows are highlighted with a red box, indicating the included objects. The 'ESEnabled' column shows the value 'C' for the first row.

AbsId	ObjectId	EnableAsyN	EnableTn	EnablePTn
1	4	Y	Y	Y
2	2	Y	Y	Y
3	17	Y	Y	Y
4	123456789012345678	N	Y	Y

ESEnabled
C

Test: create event 13, no records inserted to SEVT.

The screenshot shows the results of a SQL query. The query is `select B1iEnabled from SCFG` and `select * from SEVT`. The results are displayed in a table with columns: SequenceID, SourceDB, Timestamp, Status, Retry, ObjectType, TransType, and FieldsInK.

SequenceID	SourceDB	Timestamp	Status	Retry	ObjectType	TransType	FieldsInK
------------	----------	-----------	--------	-------	------------	-----------	-----------

Conclusion:

Set “Include List B1 Object(s)” for a company, only the included object events will be generated in SEVT table.

ESEnabled=C: only included events are generated;

ESEnabled=Y: all events are generated in SEVT;

ESEnabled=N: no events are generated in SEVT.

B1 Event Filter – Test Case 2: filter event in SEVT table

Setting

Step 4/5: Choose the Company Databases

Company Database Name	Integ Server Inbound
<input type="checkbox"/> SBODEMOUS	Default Inbound
<input checked="" type="checkbox"/> 210098	Default Inbound

Buttons: Event Filter, Receiver

DB Info

SQLQuery3.sql - m...-COMMON (sa (70))*

```
select * from CTNS
select ESEnabled from CINF
```

100 %

Results Messages

SequenceID	SourceDB	Timestamp	Status	Retry	ObjectType	TransType	FieldsInK
1	ESEnabled						

Test: create any event for SBODEMOUS. No events generated.

SQLQuery3.sql - m...-COMMON (sa (70))* x SQLQuery2.sql - m...ODEMOUS (sa (68))*

```
select BliEnabled from SCFG
select * from SEVT
```

100 %

Results Messages

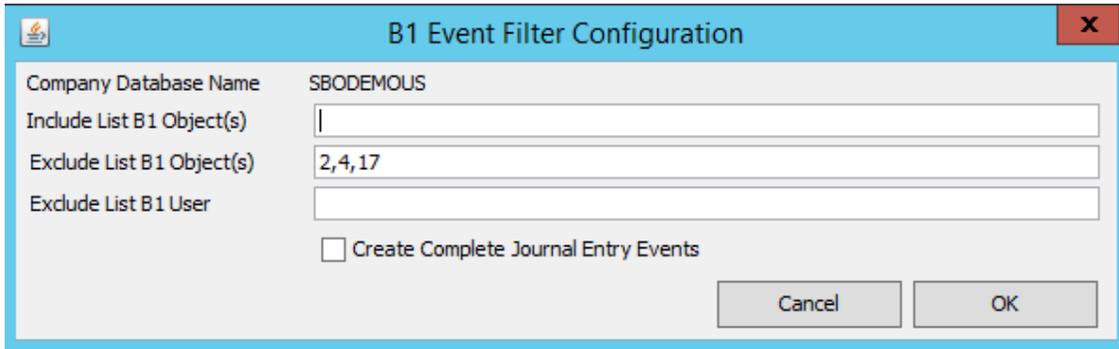
SequenceID	SourceDB	Timestamp	Status	Retry	ObjectType	TransType	FieldsInK
------------	----------	-----------	--------	-------	------------	-----------	-----------

Conclusion:

Unselect company from DB list, no event will be generated in SEVT table.

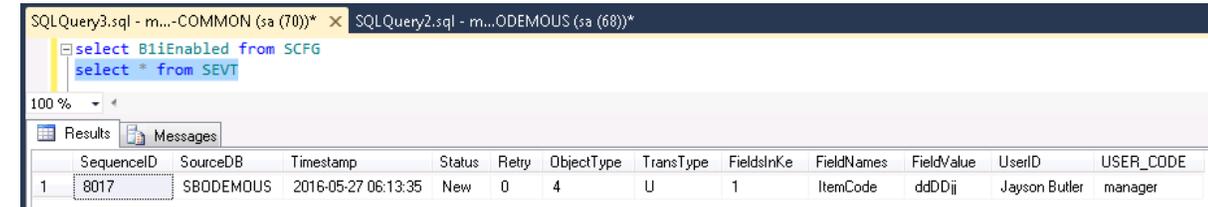
B1 Event Filter – Test Case 3: filter event in event sender

Setting



The screenshot shows the 'B1 Event Filter Configuration' dialog box. The 'Company Database Name' is set to 'SBODEMOUS'. The 'Include List B1 Object(s)' field is empty. The 'Exclude List B1 Object(s)' field contains '2,4,17'. The 'Exclude List B1 User' field is empty. There is an unchecked checkbox for 'Create Complete Journal Entry Events'. 'Cancel' and 'OK' buttons are at the bottom.

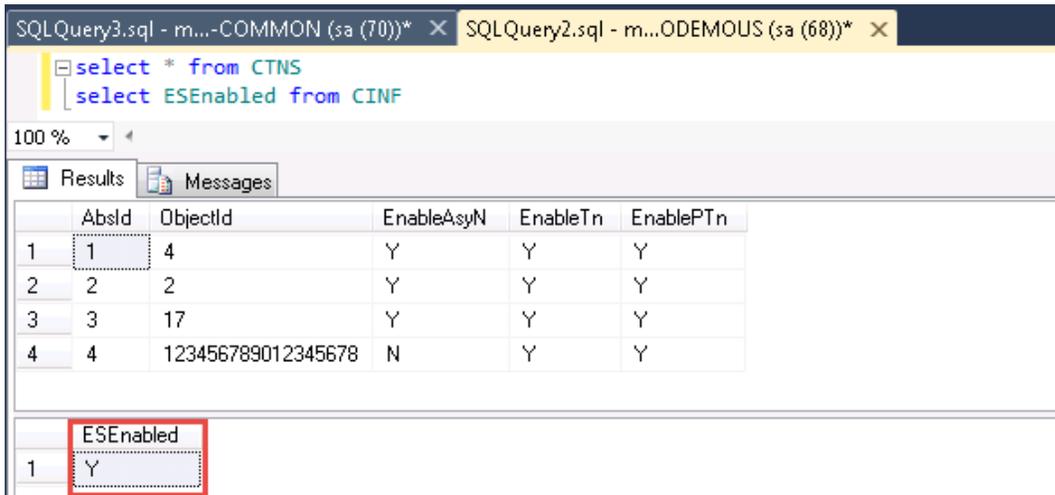
Test: create event for object 4, event is generated.



The screenshot shows a SQL query window with two tabs. The active tab is 'SQLQuery2.sql - m...ODEMOUS (sa (68))*'. The query is 'select * from SEVT'. The results table shows one row with the following data:

SequencID	SourceDB	Timestamp	Status	Retry	ObjectType	TransType	FieldsInKe	FieldNames	FieldValue	UserID	USER_CODE	
1	8017	SBODEMOUS	2016-05-27 06:13:35	New	0	4	U	1	ItemCode	ddDDij	Jayson Butler	manager

DB Info



The screenshot shows a SQL query window with two tabs. The active tab is 'SQLQuery2.sql - m...ODEMOUS (sa (68))*'. The query is 'select * from CTNS' and 'select ESEnabled from CINP'. The results table shows four rows of data:

AbsId	ObjectId	EnableAsyN	EnableTn	EnablePTn	
1	1	4	Y	Y	Y
2	2	2	Y	Y	Y
3	3	17	Y	Y	Y
4	4	123456789012345678	N	Y	Y

Below the main table, there is a smaller table with one row:

ESEnabled	
1	Y

Conclusion:

Set “Exclude List B1 Object(s)” in event filter, event for the excluded objects will still be generated in SEVT table, but will be filtered by event sender

B1 Event Filter – Test Case 3: filter event in event sender

Switch on event sender log, you can find the event is filtered:

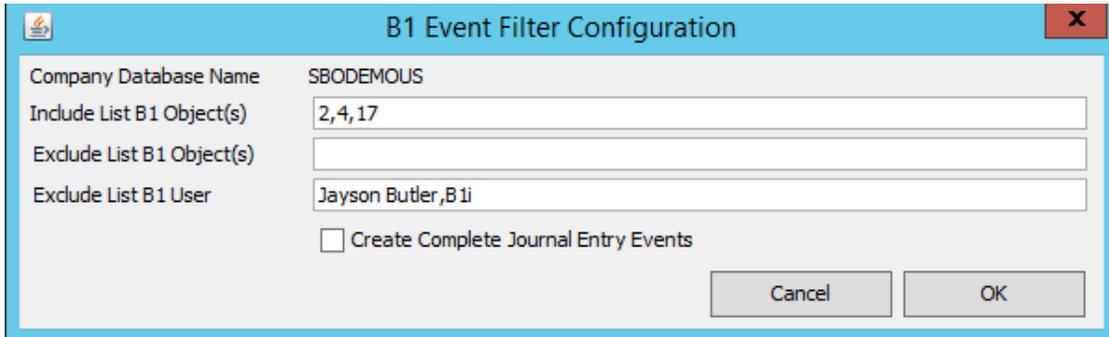
```
May 27, 2016 6:13:49 AM com.sap.b1i.eventsender.EventSender$EventSenderSession doSend
CONFIG: [SBODEMOUS] Event IDs to be sent:8017
May 27, 2016 6:13:49 AM com.sap.b1i.eventsender.EventSender$EventSenderSession doSend
INFO: These Events Below are filtered:
<b1e:b1event><b1e:eventsourc>SBODEMOUS</b1e:eventsourc><b1e:objecttype>4</b1e:objecttype><b1e:transactiontype>U</b1e:transactiontype><b1e:user
code>Jayson Butler</b1e:usercode><b1e:userid>manager</b1e:userid><b1e:keys
count="1"><b1e:key><b1e:name>ItemCode</b1e:name><b1e:value>ddDDjj</b1e:value></b1e:key></b1e:keys><b1e:sourcesite>mo-
5480d36ee.mo.sap.corp</b1e:sourcesite><b1e:sourceport>1433</b1e:sourceport><b1e:sourcetype>0</b1e:sourcetype></b1e:b1event>
May 27, 2016 6:13:49 AM com.sap.b1i.eventsender.EventSender$EventSenderSession run
CONFIG: [SBODEMOUS] Wait for seconds for Company on mo-5480d36ee.mo.sap.corp: 1433
```

To switch on event sender log:

1. Open `..SAP\SAP Business One Integration\EventSender\eventsenderlog.txt`
2. Change **.level= CONFIG** and save
3. Restart Event Sender service
4. Run scenario and check event sender log: `..SAP\SAP Business One Integration\log`

B1 Event Filter – Test Case 4: filter event in event sender

Setting



The screenshot shows the 'B1 Event Filter Configuration' dialog box. It has a title bar with a close button (X). The fields are as follows:

- Company Database Name: SBODEMOUS
- Include List B1 Object(s): 2,4,17
- Exclude List B1 Object(s): (empty)
- Exclude List B1 User: Jayson Butler,B ti
- Create Complete Journal Entry Events

Buttons: Cancel, OK

Conclusion:

Set “Exclude List B1 User” in event filter, event for the excluded users will still be generated in SEVT table, but will be filtered by event sender

Result and event sender log:

	SequenceID	SourceDB	Timestamp	Status	Retry	ObjectType	TransType	FieldsInKe	FieldNames	FieldValue	UserID	USER_CODE
1	8023	SBODEMOUS	2016-05-27 07:26:20	New	0	4	D	1	ItemCode	ddDDjjaadd	Jayson Butler	manager
2	8024	SBODEMOUS	2016-05-27 07:26:20	New	0	4	U	1	ItemCode	testuserfilter	Jayson Butler	manager

INFO: These Events Below are filtered:

```
<b1e:b1event><b1e:eventsourc>SBODEMOUS</b1e:eventsourc><b1e:objecttype>4</b1e:objecttype><b1e:transactiontype>D</b1e:transactiontype><b1e:usercode>Jayson Butler</b1e:usercode><b1e:userid>manager</b1e:userid><b1e:keyscount="1"><b1e:key><b1e:name>ItemCode</b1e:name><b1e:value>ddDDjjaadd</b1e:value></b1e:key></b1e:keys><b1e:sourcesite>mo-5480d36ee.mo.sap.corp</b1e:sourcesite><b1e:sourceport>1433</b1e:sourceport><b1e:sourcetype>0</b1e:sourcetype></b1e:b1event>
<b1e:b1event><b1e:eventsourc>SBODEMOUS</b1e:eventsourc><b1e:objecttype>4</b1e:objecttype><b1e:transactiontype>U</b1e:transactiontype><b1e:usercode>Jayson Butler</b1e:usercode><b1e:userid>manager</b1e:userid><b1e:keyscount="1"><b1e:key><b1e:name>ItemCode</b1e:name><b1e:value>testuserfilter</b1e:value></b1e:key></b1e:keys><b1e:sourcesite>mo-5480d36ee.mo.sap.corp</b1e:sourcesite><b1e:sourceport>1433</b1e:sourceport><b1e:sourcetype>0</b1e:sourcetype></b1e:b1event>
```

B1 Event Filter – Test Case 4: filter event in event sender

Note:

To exclude user, you need to enter “**User Name**” instead of “User Code”.

```
select U_NAME, USER_CODE from OUSR
```

B1 Event Filter – Test Case 5: filter event in B1i

Setting (*B1i* → Maintenance → Cfg B1 Event Filter)

SAP Business One Event Filter Configuration

B1i User Filter Switched On	<input checked="" type="checkbox"/>
Excluded SAP Business One Systems	<input type="text"/>
Excluded SAP Business One Objects	<input type="text"/>
Excluded SAP Business One Tasks	<input type="text"/>
Actions	 

Connectivity List (Active)

B1DI Test Connection

b1Server	mo-5480d36ee.mo.sap.corp
licenseServer	localhost:30000
company	SBODEMOUS
dbType	7
dbUser	sa
dbPassword
userName	B1i
password
language	3

- By default “B1i User Filter Switched On” is on.
- All events generated by B1i user will not be handled in B1i.
- In Event Monitor, the event by B1i user is displayed in **SUCCESS** section, but scenario step is not triggered.

B1 Event Filter – Test Case 6: filter event in B1i

Setting (*B1i* → *Maintenance* → *Cfg B1 Event Filter*)

SAP Business One Event Filter Configuration

<input type="checkbox"/>		
B1i User Filter Switched On	<input type="checkbox"/>	
Excluded SAP Business One Systems	all B1 Systems	...
Excluded SAP Business One Objects	4,17	...
Excluded SAP Business One Tasks	U	...
Actions	 	

All events generated by B1i will be filtered except for the events meet the requirements defined in the three fields. For example, with the parameters defined in above screenshot, events generated by updating item or purchase order by B1i user in all B1 systems will not be filtered in B1i system. All other events created by B1i user will be filtered.

B1 Event Filter – Test Case 6: filter event in B1i

1. Log on B1 with “B1i” user
2. Create a new item
3. B1 Event Monitor displays the event in success section

Message Status: success | Page: 1 (Total 1 pages)

Actions	Source Company	Object Id	Object Key(s)	Key Value(s)	Sent Data Time	Target Host	Target B1i Application
 	SBODemoUS	4	ItemCode	testb1ifilter01	2016/05/27 07:59:54	local	/vP.0010000104.in_BEAE/com.sap.b1i.v

4. Message log does not display any message. Scenario step is not triggered.

Message Log

Matching messages not found

B1 Event Filter - Summary

Three layer of filter events:

1. Filter event
in SEVT table



- Unselect company from company list
- Set filter for “include object list” per company

2. Filter event
in Event Sender



- Set filter for “Excluded object list” and “Excluded user list”

3. Filter event
in B1i



- Set event filter in B1i
(*Maintenance → Cfg B1 Event Filter*)

B1 Event Filter Generator

B1 Event Filter Generator

To check which events need to be filtered in event sender, run the Event Filter Generator.

Path: *Integration Framework* → *Tools* → *B1 Event Filter Generator*

SAP Business One Event Filter Generator

Generate	
Event Sender Filter	4,13,14,15,16,20,21,67,165,166,203,500,480000001,121000008
Status	Filter Setting possible
Info	Copy Filter to the Event Sender Setup

Copy to

EventSender setup

Step 4/5: Choose the Company Databases

Company Database Name	Event Filter	Integ Server Inbound	Receiver
<input type="checkbox"/> SBODemoCon2	Event Filter	Default Inbound	Receiver
<input type="checkbox"/> SBOBranch2	Event Filter	Default Inbound	Receiver
<input type="checkbox"/> SBODemoCon1	Event Filter	Default Inbound	Receiver
<input checked="" type="checkbox"/> SBOBranch1	Event Filter	Default Inbound	Receiver

B1 Event Filter Configuration

Company Database Name: SBOBranch1

Include List B1 Object(s):

Exclude List B1 Object(s):

Exclude List B1 User:

Create Complete Journal Entry Events

Cancel OK

Note: restart event sender service after updating settings!

B1 Event Filter Generator

- For **intercompany package**, only below events need to be included (Chapter 6 of Intercompany Admin Guide):

In the *Include List B1 Object(s)* field, enter the following comma separated list of object identifier of the SAP Business One objects to minimize the load on the integration server.

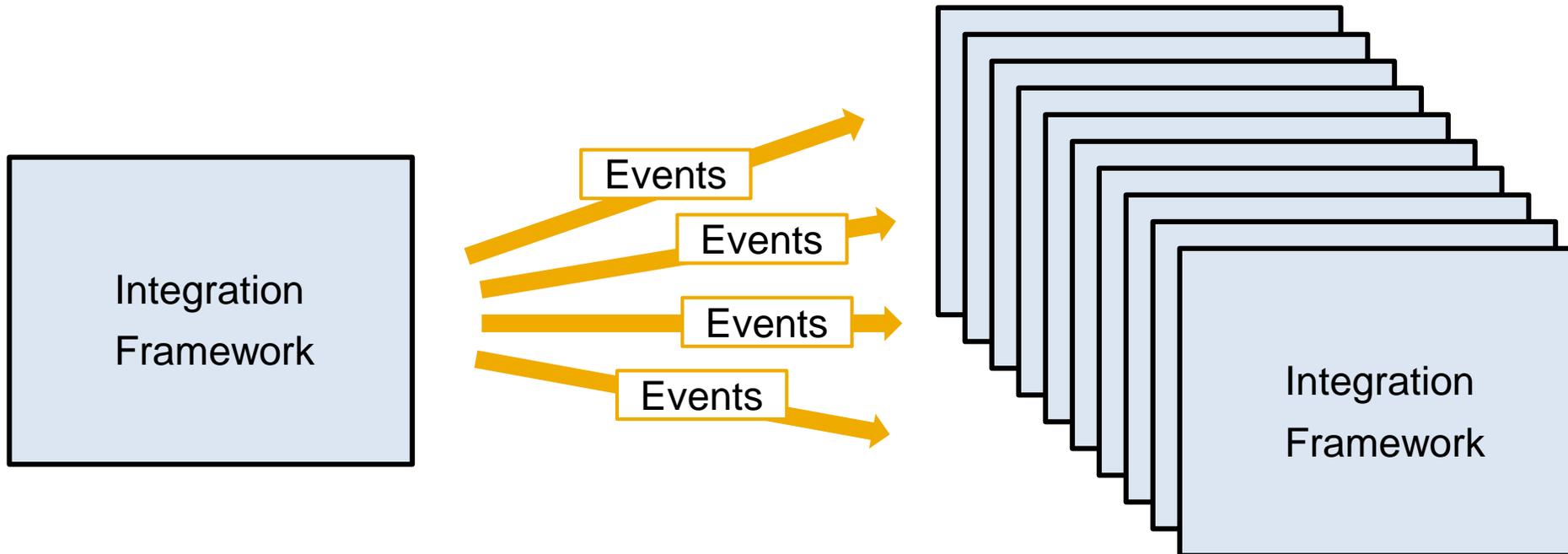
```
0,UDT,3,231,251,62,138,183,61,268,540000042,269,267,22,112,17,21,16,133,129,140000041,257,40,265,13
1,130,-3@CTX_SOURCETAX,255,53,186,196,65,223,147,28,30,44,36,150,254,6,-
3@CTX_SYNC,239,15,20,540000066,540000065,540000067,540000068,165,163,166,164,278,1000019
9,10000197,-3@CTX_GLB DATADIS,201,1320000039,-
3@CTX_ACCOUNTCLASS,56,50,51,274,140000007,159,256,52,125,10,8,49,43,37,46,13,18,19,14,2,190,176
,170,66,4,63,1720000001,1320000032,205
```

- For **sap.B1System package**, event 500 has to be included in object list;
- For **dashboard package**, event 1210000008 has to be included in object list.

B1 Event Subscriber

B1 Event Subscriber

Using B1 Event Subscriber, you can dispatch events to different B1i servers.



B1 Event Subscriber – Setup

Setting (*B1i* → *Maintenance* → *Cfg B1 Event Subscriber*)

SAP Business One Event Subscriber

    Subscribers **Test Connection**

Selection	Target Host
<input checked="" type="radio"/>	10.97.136.127

10.97.136.127: Edit Subscriber

Target URI: </ReceiveB1Events/com.sap.b1i.system.eventdispatcher/ipo/ReceiveB1Events.ipo/ReceiveB1Events>

<input type="checkbox"/>	SysId	Local Object Type ID	Event Task
<input type="checkbox"/>	<input type="text" value="0010000104"/>	<input type="text" value="4"/>	<input type="text" value="A"/>

B1 Event Subscriber – Runtime

Runtime

Local B1i event monitor:

Message Status: success | Page: 1 (Total 1 pages)

[First Page](#) [Previous Page](#) [Next Page](#) [Last Page](#)

Actions	Source Company	Object Id	Object Key(s)	Key Value(s)	Sent Data Time	Target Host	Target B1i Application
 	SBODemoUS	4	ItemCode	testeventSub	2016/05/27 08:09:12	10.97.136.127	/B1iXcellerator/exec/ipo/ReceiveB1Even

Remote B1i event monitor:

Message Status: filtered | Page: 1 (Total 1 pages)

[First Page](#) [Previous Page](#) [Next Page](#) [Last Page](#)

Source Company	Object Id	Object Key(s)	Key Value(s)	Sent Data Time
mo-5480d36ee.mo.sap.corp:SBODEMOUS	4	ItemCode	testeventSub	2016/05/27 08:09:15

Filtered due to no scenario is set up in the remote B1i server.

B1 Event Generator

B1 Event Generator - Setup

If you want to synchronize B1 data in a batch, you can use the event generator to manually create events.

Path: *Integration Framework* → *Tools* → *B1 Event Generator*

SLD MAINTENANCE SCENARIOS MONITORING **TOOLS** HELP

Tools

- Control Center
- Troubleshooting
- Benchmarks
- B1 Event Generator**
- B1 Event Filter Generator
- XML Editor

SAP Business One Event Generator

<input type="checkbox"/>	
System ID	0010000106 ...
Event Generation ID	100 ...
Event Identifier	
Object Type ID	4 ...
Task Type	A ...
Table Key	ItemCode
Retrieval Block Size	100
Retrieval Limit	
SQL Statement	<pre>select ItemCode from OITM</pre>
Actions	  Start Result Clear

B1 Event Generator - Runtime

Event Generator - Result

Display Result in XML

System ID	0010000104
Event Generation ID	100
Number of Events	69
Object Type ID	4
Table Key	ItemCode
Timestamp	2016/05/27 08:59:54

#	Key Value
1	A00001
2	A00002
3	A00003
4	A00004
5	A00005
6	A00006
7	aaa
8	B10000

SAP Business One Event Monitor

Log: On | Daily Deletion (HH:00): 00 | Message Status: success | 79 messages found

Message Status: success | Page: 1 (Total 2 pages)

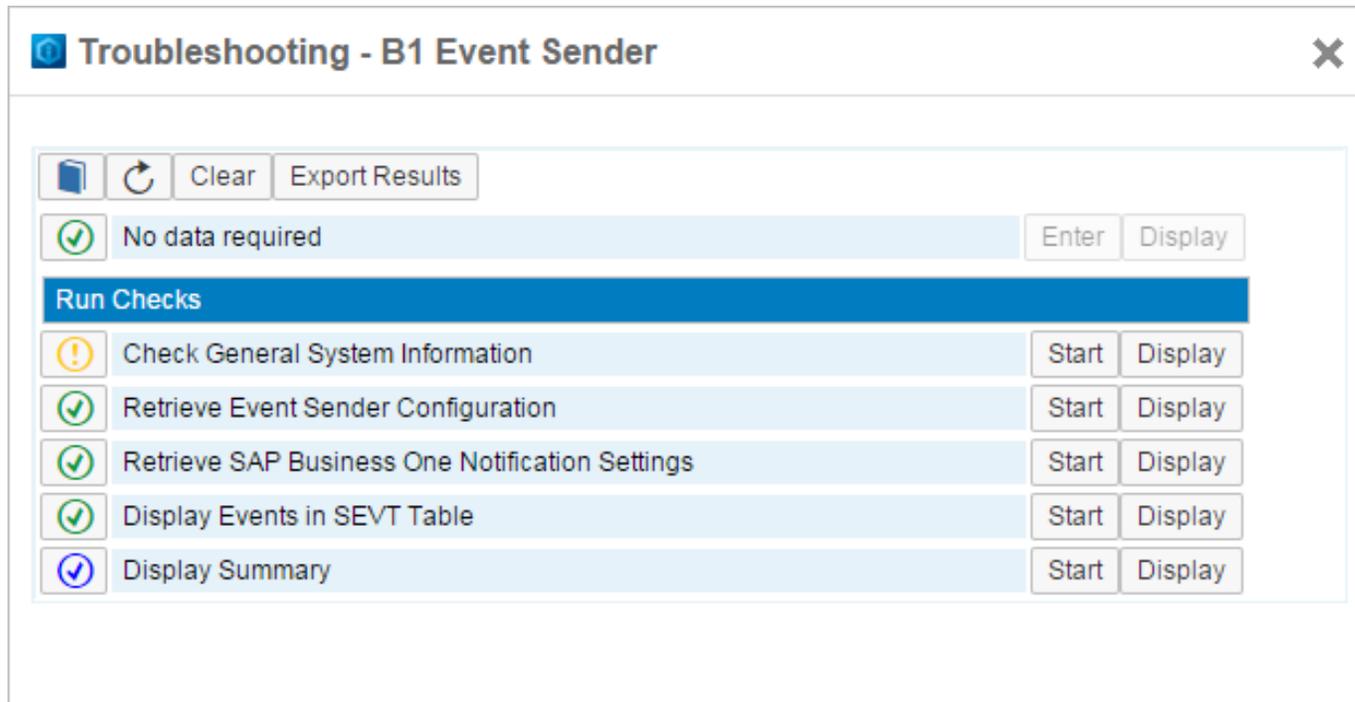
Actions	Source Company	Object Id	Object Key(s)	Key Value(s)	Sent Data Time	Target Host	Target B1i Application
▶▶	SBODemoUS	4	ItemCode	Z00002	2016/05/27 09:00:32	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	Z00001	2016/05/27 09:00:31	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	TR0001	2016/05/27 09:00:31	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	testuserfilter	2016/05/27 09:00:31	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	testItem001	2016/05/27 09:00:30	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	testeventSub	2016/05/27 09:00:30	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	testb1filter01	2016/05/27 09:00:29	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	testb1filter	2016/05/27 09:00:29	local	/VP.0010000104.in_BEAE/com.sap.b1i.v
▶▶	SBODemoUS	4	ItemCode	test01	2016/05/27 09:00:28	local	/VP.0010000104.in_BEAE/com.sap.b1i.v

Note that the events will be generated directly in B1i event monitor, records will not be generated in SEVT table and go through Event Sender.

Troubleshooting Tool

Troubleshooting Tool – B1 Event Sender

Path: *Integration Framework* → *Tools* → *Troubleshooting* → Choose “B1 Event Sender” in Functional Group



The screenshot shows a software window titled "Troubleshooting - B1 Event Sender". At the top left, there is a blue icon and a close button (X). Below the title bar, there is a toolbar with a folder icon, a refresh icon, and two buttons labeled "Clear" and "Export Results". The main area contains a list of items:

- A green checkmark icon followed by the text "No data required" and two buttons: "Enter" and "Display".
- A blue header bar with the text "Run Checks".
- A yellow warning icon followed by the text "Check General System Information" and two buttons: "Start" and "Display".
- A green checkmark icon followed by the text "Retrieve Event Sender Configuration" and two buttons: "Start" and "Display".
- A green checkmark icon followed by the text "Retrieve SAP Business One Notification Settings" and two buttons: "Start" and "Display".
- A green checkmark icon followed by the text "Display Events in SEVT Table" and two buttons: "Start" and "Display".
- A blue checkmark icon followed by the text "Display Summary" and two buttons: "Start" and "Display".

DEMO

Optimization

Optimization

- ✓ Increase batch number to improve event processing throughput
- ✓ Set include object list in event sender setup filter.
- ✓ Exclude B1 users in setup filter.
- ✓ Dispatch events to other B1i to balance server load.
- ✓ To replicate mass data, use event generator tool.



Thank you

Contact information:

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