

Home > SAP Business Technology Platform (SAP BTP) > SAP - ABAP RESTful Application Programming Model > Learn > ... > RAP BO Behavior > Business Events

SAP This document Search in this document

Advanced Search

# ABAP RESTful Application Programming Model

Navigation icons: list, up, down, left, right, etc.

Actions: Favorites, Download, Share, Next

- > Draft
- > Authorization Control
- > Operations
- > Determinations
  - Determine Actions
- > Validations
  - Side Effects
  - Business Events
- > Save Options
- > Business Object Provider API
- > RAP BO Best Practices
- > RAP BO Runtime
- > Entity Manipulation Language (FML)

## Business Events

### On this page

- About Business Events in RAP
- RAP BO as Event Provider
- Related Information

# Business Events in RAP

## ABAP RESTful Application Programming Model

- ▼ Learn
- Data Modeling and Behavior

Runtime Frameworks
- ▼ Business Object
- Business Object Implementation Types

▼ RAP BO Provisioning

▼ RAP BO Behavior

> Numbering

> Concurrency Control

> Draft

> Authorization Control

> Operations

> Determinations

> Validations

Determine Actions

> Feature Control

Side Effects

Business Events

> Save Options

> Business Object Provider API

> RAP BO Best Practices

> RAP BO Runtime

> Entity Manipulation Language (FML)

RAP supports event-driven architecture natively. Event-driven architecture enables asynchronous communication between an event provider and an event consumer in use cases where no direct response from the event consumer

- On this page
- About Business Events in RAP

RAP BO as Event Provider

Related Information

Was this page helpful?

represent a significant change of state of the RAP business object, or of one of its children, that is relevant for follow-up processes. For example, when a new travel is created, you can enable consuming applications to trigger additional actions with the help of events. Most commonl

On this page

- About Business Events in RAP
- RAP BO as Event Provider
- Related Information

Was this page helpful?

- ABAP RESTful Application Programming Model
- ▼ Learn

Data Modeling and Behavior

Runtime Frameworks

▼ Business Object

Business Object Implementation Types

▼ RAP BO Provisioning

▼ RAP BO Behavior

> Numbering

> Concurrency Control

> Draft

> Authorization Control

> Operations

> Determinations

> Validations

Determine Actions

> Feature Control

Side Effects

Business Events

> Save Options

> Business Object Provider API

> RAP BO Best Practices

> RAP BO Runtime

> Entity Manipulation Language (FML)

ABAP RESTful Application Programming Model

▼ Learn

- Data Modeling and Behavior
- Runtime Frameworks

▼ Business Object

Business Object Implementation Types

▼ RAP BO Provisioning

▼ RAP BO Behavior

- > Numbering
- > Concurrency Control
- > Draft
- > Authorization Control

> Operations

> Determinations

> Validations

Determine Actions

> Feature Control

Side Effects

Business Events

> Save Options

> Business Object Provider API

> RAP BO Best Practices

> RAP BO Runtime

> Entity Manipulation Language (FML)

re is used in combination with a messaging service that notifies the event consumer when an event occurs. This follows a publisher - subscriber pattern where the event provider triggers the messaging when the specific event occurs. The event consumer is then notified and responsib

On this page

- About Business Events in RAP
- RAP BO as Event Provider
- Related Information

Was this page helpful?

ABAP RESTful Application Programming Model

- ▼ Learn
- Data Modeling and Behavior
- Runtime Frameworks
- ▼ Business Object
- Business Object Implementation Types
- ▼ RAP BO Provisioning
- ▼ RAP BO Behavior
- > Numbering
- > Concurrency Control
- > Draft
- > Authorization Control
- > Operations
- > Determinations
- > Validations
- Determine Actions
- > Feature Control
- Side Effects
- Business Events
- > Save Options
- > Business Object Provider API
- > RAP BO Best Practices
- > RAP BO Runtime
- > Entity Manipulation Language (FML)

... follow-up actions as required by the business use case. However, the event provider doesn't know about the event consumer s and there is no two-sided communication pattern. This allows for asynchronous communication between event provider and event consumer .

- On this page
- [About Business Events in RAP](#)
- [RAP BO as Event Provider](#)
- [Related Information](#)

Was this page helpful?

# as Event Provider

## ABAP RESTful Application Programming Model

- ▼ Learn
- Data Modeling and Behavior
- Runtime Frameworks
- ▼ Business Object
- Business Object Implementation Types
- ▼ RAP BO Provisioning
- ▼ RAP BO Behavior
- > Numbering
- > Concurrency Control
- > Draft
- > Authorization Control
- > Operations
- > Determinations
- > Validations
- Determine Actions
- > Feature Control
- Side Effects
- Business Events
- > Save Options
- > Business Object Provider API
- > RAP BO Best Practices
- > RAP BO Runtime
- > Entity Manipulation Language (FML)

As event provider, an event can be defined in the behavior definition of a RAP business object with the key word event EventName with or without parameters. After the event has been defined, it can be raised in the behavior implementation in the late save

- On this page
- [About Business Events in RAP](#)
- [RAP BO as Event Provider](#)
- [Related Information](#)

Was this page helpful?

ABAP RESTful Application Programming Model

- Learn
  - Data Modeling and Behavior
  - Runtime Frameworks
- Business Object
  - Business Object Implementation Types
- RAP BO Provisioning
  - RAP BO Behavior
    - Numbering
    - Concurrency Control
    - Draft
    - Authorization Control
    - Operations
    - Determinations
    - Validations
    - Determine Actions
    - Feature Control
    - Side Effects
    - Business Events
    - Save Options
  - Business Object Provider API
  - RAP BO Best Practices
  - RAP BO Runtime
  - Entity Manipulation Language (FML)

with the  
respectiv  
e  
message  
is raised  
after a  
change of  
state has  
been  
complete  
d, e.g. if a  
BO entity  
like a  
travel or  
a booking  
has been  
created,  
updated  
or  
deleted.  
When the  
change is  
saved to  
the  
database,  
the event  
is raised  
during  
the SAVE  
sequence  
after the  
point of  
no return  
has  
passed.  
The  
Event

- On this page
- About Business Events in RAP
  - RAP BO as Event Provider
  - Related Information

Was this page helpful?

ABAP RESTful Application Programming Model

▼ Learn

- Data Modeling and Behavior
- Runtime Frameworks

▼ Business Object

Business Object Implementation Types

▼ RAP BO Provisioning

▼ RAP BO Behavior

- > Numbering
- > Concurrency Control
- > Draft
- > Authorization Control

- > Operations
- > Determinations
- > Validations

Determine Actions

- > Feature Control

Side Effects

Business Events

- > Save Options

- > Business Object Provider API

- > RAP BO Best Practices

- > RAP BO Runtime

- > Entity Manipulation Language (FML)

artifact represents the design time definition of the event and maps the event defined in a RAP BO to a namespace, a business object and a business object operation like modify. The definition of the event in the behavior definition and the raising of the event in the SAVE sequence represent

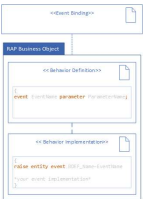
On this page

- About Business Events in RAP
- RAP BO as Event Provider
- Related Information

Was this page helpful?



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respectiv  
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ABAP RESTful Application Programming Model

Learn

- Data Modeling and Behavior
- Runtime Frameworks

Business Object

Business Object Implementation Types

RAP BO Provisioning

RAP BO Behavior

- Numbering
- Concurrency Control
- Draft
- Authorization Control

Operations

Determinations

Validations

Determine Actions

Feature Control

Side Effects

Business Events

Save Options

Business Object Provider API

RAP BO Best Practices

RAP BO Runtime

Entity Manipulation Language (FML)

For more  
informati  
on on  
how to  
define a  
Business  
Event in a  
RAP BO,  
see:

[Develop  
Business  
Events](#)

Relat  
ed Infor  
mati  
on

[Develop  
Business  
Events](#)

[Business  
Event  
Consump  
tion](#)

On this page

[About Business Events in  
RAP](#)

[RAP BO as Event Provider](#)

[Related Information](#)

Was this page  
helpful?

|  |  |
|--|--|
| ABAP RESTful Application Programming Model | On this page                                 |
| ▼ Learn                                    | <a href="#">About Business Events in RAP</a> |
| Data Modeling and Behavior                 |  |
| Runtime Frameworks                         |  |
| ▼ Business Object                          | <a href="#">RAP BO as Event Provider</a>     |
| Business Object Implementation Types       | <a href="#">Related Information</a>          |
| ▼ RAP BO Provisioning                      |  |
| ▼ RAP BO Behavior                          |  |
| > Numbering                                |  |
| > Concurrency Control                      |  |
| > Draft                                    |  |
| > Authorization Control                    |  |
| > Operations                               |  |
| > Determinations                           |  |
| > Validations                              |  |
| Determine Actions                          |  |
| > Feature Control                          |  |
| Side Effects                               |  |
| Business Events                            |  |
| > Save Options                             |  |
| > Business Object Provider API             |  |
| > RAP BO Best Practices                    |  |
| > RAP BO Runtime                           |  |
| > Entity Manipulation Language (FML)       |  |