Apache Kafka Producer Adapter

PAS 22.1.2 The Designer allows to write synchronous messages to an Apache Kafka event topic. The access to Kafka can be configured statically by an alias - dynamic access is not available. The Kafka Producer supports SSL but no Kerberos authentication.

> ⓘ To use the Apache Kafka Producer adapter, you need basic knowledge of Apache Kafka. Refer to the Apache Kafka Documentation for any deeper insights.

You can find all data types and operations of the Kafka Producer adapter in the service panel at **Base Types/Bridge Base/Base Components/Add Ons/Kafka**. The Apache Kafka documentation speaks of events that contain a message, or of records in more technical parts of the documentation. This documentation summarizes all under the term "message".

Adding a Kafka Producer Adapter Operation to a Diagram

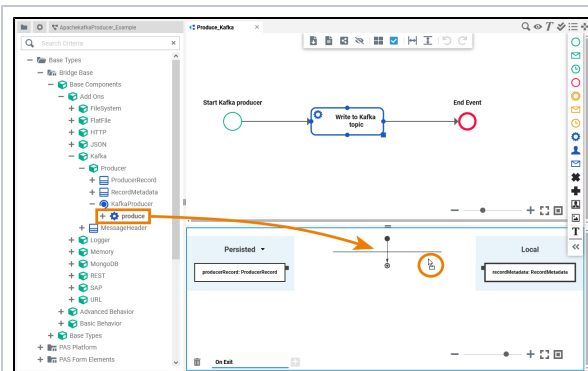|	

☐ Base Types
  ☐ Bridge Base
    ☐ Base Components
      ☐ Add Ons
        ⊞ FileSystem
        ⊞ FlatFile
        ⊞ HTTP
        ⊞ JSON
        ☐ Kafka
          ☐ Producer
            ⊞ ProducerRecord
            ⊞ RecordMetadata
            ☐ KafkaProducer
              ⊞ **produce**
          ⊞ MessageHeader
        ⊞ Logger
        ⊞ Memory
        ⊞ MongoDB
	Expand the path to the Kafka Producer adapter in the service panel (**Base Types /Bridge Base /Base Components /Add Ons /Kafka**).

You can drag out operations from the data model to any diagram:

- [BPMN execution diagram](#)
- [mapping diagrams](#)
- [activity diagrams](#)

The example on the left shows how to add a Kafka Producer adapter operation to a BPMN execution diagram.

Configuring the Kafka Producer Adapter Operation

Once an operation has been added to a diagram, it needs to be configured as a Kafka Producer adapter.

Select the newly added Kafka Producer adapter operation and switch to the **Attribute s** panel. Depending on the diagram type you can see the following information (example BPMN execution diagram):

Attribute	Description	Allowed Values / Examples
Name	The name of the Kafka Producer adapter operation.	**produce**
Symbol Type	Operations added to an execution diagram are execution steps.	**Execution Step**

All this is predefined and cannot be changed.

Attributes ✕ Properties ⌃ Name produce + Add Stereotype Symbol Type Execution Step	Click **Add Stereotype** to define the selected operation as to be a Kafka Producer adapter.
Select Stereotype ☐ File System Adapter ☐ Flat File Adapter ☑ Kafka Producer Adapter ☐ Logger ☐ Memory Adapter ☐ MongoDB Adapter ☐ REST Adapter ☐ S3 ☐ SAP IDoc Composer ☐ SAP IDoc Parser ☐ SAP IDoc Record Composer ☐ SAP IDoc Record Parser ☐ SAP RFC Adapter ☐ SAP TRFC Adapter ☐ SAP TRFC Confirm Transaction ☐ SAP TRFC Create Transaction ☐ SAP XML IDoc Composer ☐ SAP XML IDoc Parser ☐ SQL Adapter ☐ URL Adapter **Save** Cancel	Select **Kafka Producer Adapter** from the list of available adapter stereotypes. Click **Save**.
Attributes ✕ Properties ⌃ Name produce KafkaProducerAdapter + Add Stereotype Symbol Type Execution Step	The **Attributes** panel shows the added adapter stereotype. Now you still need to configure the adapter. Expand the stereotype by clicking the arrow on the right.

Attributes ✕ Properties ⌃ Name produce KafkaProducerAdapter ⌃ alias Select alias ✚ + Add Stereotype Symbol Type Execution Step	To configure a Kafka Producer adapter, you have the following options: • **alias:** A Kafka Producer adapter is configured via its alias.
Attributes ✕ Properties ⌃ Name produce KafkaProducerAdapter ⌃ alias None AcmeKafka + Add Stereotype Symbol Type Execution Step	You can select an existing alias from a drop-down list by clicking the text **Select alias**. If you want to remove an added alias, click the corresponding ▬ icon on the right side or select **None** from the drop-down list.
Attributes ✕ Properties ⌃ Name produce KafkaProducerAdapter ⌃ alias Select alias ✚ + Add Stereotype Symbol Type Execution Step	You can also create and add a new alias by clicking the corresponding ✚ icon. Refer to Aliases for more information on how to create a new alias.

Add Alias

Name: NewAlias

Standard ∧

servers +

enableIdempotence ☑

Compression ∨

Security ∨

Advanced ∨

[Save] [Cancel]

In the following dialog, name and configure the new alias.

Refer to Apache Kafka Producer Reference for more information on the configuration options of this adapter.

Click **Save** to create and add the new alias.