# Namespace AzureServiceBusFlow.Abstractions

## Interfaces

ICommandProducer<TCommand>

IEventProducer<TEvent>

IMessageHandler<T>

IServiceBusMessage

IServiceBusProducer<TMessage>

Defines a producer responsible for sending messages to Azure Service Bus.

# Interface ICommandProducer<TCommand>

Namespace: [AzureServiceBusFlow](#).[Abstractions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public interface ICommandProducer<in TCommand> where TCommand : class, IServiceBusMessage
```

## Type Parameters

TCommand

# Methods

## ProduceCommandAsync(TCommand, MessageOptions, CancellationToken)

Produces the command using explicit message options such as delay or application properties.

```
Task ProduceCommandAsync(TCommand command, MessageOptions messageOptions,
CancellationToken cancellationToken)
```

## Parameters

command TCommand

messageOptions [MessageOptions](#)

cancellationToken [CancellationToken](#)

## Returns

[Task](#)

## ProduceCommandAsync(TCommand, IDictionary<string, object>, CancellationToken)

Produces the command with a set of application properties that will be attached to the message.

```
Task ProduceCommandAsync(TCommand command, IDictionary<string, object>
applicationProperties, CancellationToken cancellationToken)
```

## Parameters

command  TCommand

applicationProperties  IDictionary<string, object>

cancellationToken  CancellationToken

## Returns

Task

## ProduceCommandAsync(TCommand, CancellationToken)

Produces the command without additional options.

```
Task ProduceCommandAsync(TCommand command, CancellationToken cancellationToken)
```

## Parameters

command  TCommand

cancellationToken  CancellationToken

## Returns

Task

## ProduceCommandAsync(TCommand, TimeSpan, CancellationToken)

Produces the command with a delivery delay before it becomes available for processing.

```
Task ProduceCommandAsync(TCommand command, TimeSpan delay, CancellationToken
cancellationToken)
```

## Parameters

command  TCommand

delay  [TimeSpan](#)⬈

cancellationToken  [CancellationToken](#)⬈

## Returns

[Task](#)⬈

# Interface IEventProducer<TEvent>

Namespace: [AzureServiceBusFlow](#).[Abstractions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public interface IEventProducer<in TEvent> where TEvent : class, IServiceBusMessage
```

## Type Parameters

TEvent

## Methods

### ProduceEventAsync(TEvent, CancellationToken)

```csharp
Task ProduceEventAsync(TEvent @event, CancellationToken cancellationToken)
```

### Parameters

event  TEvent

cancellationToken [CancellationToken](#)

### Returns

[Task](#)

# Interface IMessageHandler<T>

Namespace: AzureServiceBusFlow.Abstractions

Assembly: AzureServiceBusFlow.Configurations.dll

```
public interface IMessageHandler<in T>
```

## Type Parameters

T

# Methods

## HandleAsync(T, ServiceBusReceivedMessage, CancellationToken)

```
Task HandleAsync(T message, ServiceBusReceivedMessage rawMessage,
CancellationToken cancellationToken)
```

### Parameters

`message` T

`rawMessage` ServiceBusReceivedMessage⧉

`cancellationToken` CancellationToken⧉

### Returns

Task⧉

# Interface IServiceBusMessage

Namespace: [AzureServiceBusFlow](#).[Abstractions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public interface IServiceBusMessage
```

## Properties

### CreatedDate

```csharp
DateTime CreatedDate { get; }
```

#### Property Value

[DateTime](#)⧉

### RoutingKey

```csharp
string RoutingKey { get; }
```

#### Property Value

[string](#)⧉

# Interface IServiceBusProducer\<TMessage>

Namespace: [AzureServiceBusFlow](.).[Abstractions](.)

Assembly: AzureServiceBusFlow.Configurations.dll

Defines a producer responsible for sending messages to Azure Service Bus.

```
public interface IServiceBusProducer<in TMessage> where TMessage : class, IServiceBusMessage
```

## Type Parameters

`TMessage`

The type of the message to be sent.

# Methods

## ProduceAsync(TMessage, MessageOptions, CancellationToken)

Sends a message to the Azure Service Bus with custom producer options, such as delivery delay or application properties.

```
Task ProduceAsync(TMessage message, MessageOptions producerOptions,
CancellationToken cancellationToken)
```

## Parameters

`message` TMessage

The message to be sent.

`producerOptions` [MessageOptions](.)

Additional options for message delivery.

`cancellationToken` [CancellationToken](.)⬚

A token to monitor for cancellation requests.

## Returns

[Task](#)

## ProduceAsync(TMessage, IDictionary<string, object>, CancellationToken)

Sends a message to the Azure Service Bus with application properties that can be used for downstream filtering or routing.

```
Task ProduceAsync(TMessage message, IDictionary<string, object> applicationProperties,
CancellationToken cancellationToken)
```

### Parameters

`message`  TMessage

  The message to be sent.

`applicationProperties`  [IDictionary](#)<[string](#), [object](#)>

  Key-value pairs attached to the message.

`cancellationToken`  [CancellationToken](#)

  A token to monitor for cancellation requests.

### Returns

[Task](#)

## ProduceAsync(TMessage, CancellationToken)

Sends a message to the Azure Service Bus without any additional options.

```
Task ProduceAsync(TMessage message, CancellationToken cancellationToken)
```

### Parameters

message TMessage

The message to be sent.

cancellationToken CancellationToken⧉

A token to monitor for cancellation requests.

## Returns

Task⧉

# ProduceAsync(TMessage, TimeSpan, CancellationToken)

Sends a message to the Azure Service Bus with a specified delivery delay.

```
Task ProduceAsync(TMessage message, TimeSpan delay, CancellationToken cancellationToken)
```

## Parameters

message TMessage

The message to be sent.

delay TimeSpan⧉

The delay duration before the message becomes available.

cancellationToken CancellationToken⧉

A token to monitor for cancellation requests.

## Returns

Task⧉

# Namespace AzureServiceBusFlow.Builders

## Classes

[ServiceBusConfigurationBuilder](#)

    Builder for configuring Azure Service Bus, allowing connection, producers, and consumers setup.

[ServiceBusConsumerConfigurationBuilder](#)

[ServiceBusProducerConfigurationBuilder<TMessage>](#)

# Class ServiceBusConfigurationBuilder

Namespace: [AzureServiceBusFlow](#).[Builders](#)

Assembly: AzureServiceBusFlow.Configurations.dll

Builder for configuring Azure Service Bus, allowing connection, producers, and consumers setup.

```
public class ServiceBusConfigurationBuilder
```

**Inheritance**

[object](#) ← ServiceBusConfigurationBuilder

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## ServiceBusConfigurationBuilder(IServiceCollection)

Builder for configuring Azure Service Bus, allowing connection, producers, and consumers setup.

```
public ServiceBusConfigurationBuilder(IServiceCollection services)
```

### Parameters

`services` [IServiceCollection](#)

# Properties

## AzureServiceBusConfiguration

The connection string used to connect to Azure Service Bus.

```
public AzureServiceBusConfiguration AzureServiceBusConfiguration { get; }
```

## Property Value

[AzureServiceBusConfiguration](#)

# Methods

## AddConsumer(Action<ServiceBusConsumerConfigurationBuilder>)

Adds a consumer configuration via a callback.

```
public ServiceBusConfigurationBuilder
AddConsumer(Action<ServiceBusConsumerConfigurationBuilder> configure)
```

### Parameters

`configure` [Action](#)<[ServiceBusConsumerConfigurationBuilder](#)>

Action to configure the consumer, receives a specific builder.

### Returns

[ServiceBusConfigurationBuilder](#)

Returns the builder itself for method chaining.

## AddProducer<TMessage>(Action<ServiceBusProducerConfigurationBuilder<TMessage>>)

Adds a producer for messages of type `TMessage` configured via a callback.

```
public ServiceBusConfigurationBuilder AddProducer<TMessage>
(Action<ServiceBusProducerConfigurationBuilder<TMessage>> configure) where TMessage :
class, IServiceBusMessage
```

### Parameters

configure [Action↗](#)<[ServiceBusProducerConfigurationBuilder](#)<TMessage>>

Action to configure the producer, receives a specific builder.

## Returns

[ServiceBusConfigurationBuilder](#)

Returns the builder itself for method chaining.

## Type Parameters

TMessage

The type of message to produce, must implement [IServiceBusMessage](#).

# Build()

Validates the configuration and ensures required properties are set.

```
public void Build()
```

## Exceptions

[InvalidOperationException↗](#)

Thrown when the connection string is not set.

# ConfigureAzureServiceBus(AzureServiceBusConfiguration)

Sets the connection string that will be used for all Service Bus operations.

```
public ServiceBusConfigurationBuilder ConfigureAzureServiceBus(AzureServiceBusConfiguration
azureServiceBusConfiguration)
```

## Parameters

azureServiceBusConfiguration [AzureServiceBusConfiguration](#)

# Returns

[ServiceBusConfigurationBuilder](#)

Returns the builder itself for method chaining.

# Class ServiceBusConsumerConfigurationBuilder

Namespace: [AzureServiceBusFlow](#).[Builders](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public class ServiceBusConsumerConfigurationBuilder
```

**Inheritance**

[object](#) ← ServiceBusConsumerConfigurationBuilder

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## ServiceBusConsumerConfigurationBuilder(AzureServiceBusConfiguration, IServiceCollection)

```csharp
public ServiceBusConsumerConfigurationBuilder(AzureServiceBusConfiguration
_azureServiceBusConfiguration, IServiceCollection services)
```

### Parameters

`_azureServiceBusConfiguration` [AzureServiceBusConfiguration](#)

`services` [IServiceCollection](#)

# Methods

## AddHandler<TMessage, THandler>()

```csharp
public ServiceBusConsumerConfigurationBuilder AddHandler<TMessage, THandler>() where
TMessage : class, IServiceBusMessage where THandler : class, IMessageHandler<TMessage>
```

## Returns

[ServiceBusConsumerConfigurationBuilder](#)

## Type Parameters

`TMessage`

`THandler`

# Build()

```
public void Build()
```

# EnsureSubscriptionExists(string, string)

```
public ServiceBusConsumerConfigurationBuilder EnsureSubscriptionExists(string topicName,
string subscriptionName)
```

## Parameters

`topicName` [string](#)

`subscriptionName` [string](#)

## Returns

[ServiceBusConsumerConfigurationBuilder](#)

# FromQueue(string)

```
public ServiceBusConsumerConfigurationBuilder FromQueue(string queueName)
```

## Parameters

`queueName` [string](#)

## Returns

[ServiceBusConsumerConfigurationBuilder](#)

# FromTopic(string, string)

```
public ServiceBusConsumerConfigurationBuilder FromTopic(string topicName,
string subscriptionName)
```

## Parameters

`topicName` [string](#)

`subscriptionName` [string](#)

## Returns

[ServiceBusConsumerConfigurationBuilder](#)

# Class ServiceBusProducerConfigurationBuilder<TMe ssage>

Namespace: [AzureServiceBusFlow](#).[Builders](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public class ServiceBusProducerConfigurationBuilder<TMessage> where TMessage :
class, IServiceBusMessage
```

## Type Parameters

TMessage

**Inheritance**

[object](#) ← ServiceBusProducerConfigurationBuilder<TMessage>

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## ServiceBusProducerConfigurationBuilder(AzureServiceBusConfiguration, IServiceCollection)

```
public ServiceBusProducerConfigurationBuilder(AzureServiceBusConfiguration
azureServiceBusConfiguration, IServiceCollection services)
```

## Parameters

azureServiceBusConfiguration [AzureServiceBusConfiguration](#)

services [IServiceCollection](#)

# Methods

## EnsureQueueExists(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> EnsureQueueExists(string queueName)
```

### Parameters

queueName [string](#)

### Returns

[ServiceBusProducerConfigurationBuilder](#)<TMessage>

## EnsureTopicExists(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> EnsureTopicExists(string topicName)
```

### Parameters

topicName [string](#)

### Returns

[ServiceBusProducerConfigurationBuilder](#)<TMessage>

## ToQueue(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> ToQueue(string queueName)
```

### Parameters

queueName [string](#)

### Returns

ServiceBusProducerConfigurationBuilder<TMessage>

# ToTopic(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> ToTopic(string topicName)
```

## Parameters

topicName string↗

## Returns

ServiceBusProducerConfigurationBuilder<TMessage>

# UseMiddleware<TMiddleware>()

```
public ServiceBusProducerConfigurationBuilder<TMessage> UseMiddleware<TMiddleware>() where
TMiddleware : IProducerMiddleware
```

## Returns

ServiceBusProducerConfigurationBuilder<TMessage>

## Type Parameters

TMiddleware

# WithCommandProducer()

```
public ServiceBusProducerConfigurationBuilder<TMessage> WithCommandProducer()
```

## Returns

ServiceBusProducerConfigurationBuilder<TMessage>

# WithEventProducer()

```
public ServiceBusProducerConfigurationBuilder<TMessage> WithEventProducer()
```

## Returns

[ServiceBusProducerConfigurationBuilder](#)<TMessage>

# WithQueue(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> WithQueue(string queue)
```

## Parameters

queue [string](#)⧉

## Returns

[ServiceBusProducerConfigurationBuilder](#)<TMessage>

# WithTopic(string)

```
public ServiceBusProducerConfigurationBuilder<TMessage> WithTopic(string topic)
```

## Parameters

topic [string](#)⧉

## Returns

[ServiceBusProducerConfigurationBuilder](#)<TMessage>

# Namespace AzureServiceBusFlow.Extensions

## Classes

[AzureServiceBusExtensions](AzureServiceBusExtensions)

[ServiceBusMessageExtensions](ServiceBusMessageExtensions)

# Class AzureServiceBusExtensions

Namespace: [AzureServiceBusFlow](#).[Extensions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public static class AzureServiceBusExtensions
```

**Inheritance**

[object](#) ← AzureServiceBusExtensions

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Methods

## AddAzureServiceBus(IServiceCollection, Action<ServiceBusConfigurationBuilder>)

```
public static IServiceCollection AddAzureServiceBus(this IServiceCollection services,
Action<ServiceBusConfigurationBuilder> configure)
```

### Parameters

`services` [IServiceCollection](#)

`configure` [Action](#)<[ServiceBusConfigurationBuilder](#)>

### Returns

[IServiceCollection](#)

# Class ServiceBusMessageExtensions

Namespace: [AzureServiceBusFlow](#).[Extensions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public static class ServiceBusMessageExtensions
```

**Inheritance**

[object](#) ← ServiceBusMessageExtensions

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Methods

## GetStringProperty(ServiceBusReceivedMessage, string)

```
public static string? GetStringProperty(this ServiceBusReceivedMessage message, string key)
```

### Parameters

`message` [ServiceBusReceivedMessage](#)

`key` [string](#)

### Returns

[string](#)

# Namespace AzureServiceBusFlow.Hosts

## Classes

[ServiceBusConsumerHostedService](#)

# Class ServiceBusConsumerHostedService

Namespace: [AzureServiceBusFlow](#).[Hosts](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public class ServiceBusConsumerHostedService : IHostedService, IAsyncDisposable
```

**Inheritance**

[object](#) ← ServiceBusConsumerHostedService

**Implements**

[IHostedService](#), [IAsyncDisposable](#)

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## ServiceBusConsumerHostedService(Func<ServiceBusReceivedMessage, IServiceProvider, CancellationToken, Task>, IServiceProvider, ILogger, AzureServiceBusConfiguration, string, string)

```
public ServiceBusConsumerHostedService(Func<ServiceBusReceivedMessage, IServiceProvider,
CancellationToken, Task> messageHandler, IServiceProvider serviceProvider, ILogger logger,
AzureServiceBusConfiguration azureServiceBusConfiguration, string queueOrTopicName, string
subscriptionName = null)
```

## Parameters

`messageHandler` [Func](#)<[ServiceBusReceivedMessage](#), [IServiceProvider](#), [CancellationToken](#), [Task](#)>

`serviceProvider` [IServiceProvider](#)

`logger` [ILogger](#)

`azureServiceBusConfiguration` [AzureServiceBusConfiguration](#)

`queueOrTopicName` [string ⧉](#)

`subscriptionName` [string ⧉](#)

# Methods

## DisposeAsync()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources asynchronously.

```
public ValueTask DisposeAsync()
```

### Returns

[ValueTask ⧉](#)

A task that represents the asynchronous dispose operation.

## StartAsync(CancellationToken)

Triggered when the application host is ready to start the service.

```
public Task StartAsync(CancellationToken cancellationToken)
```

### Parameters

`cancellationToken` [CancellationToken ⧉](#)

Indicates that the start process has been aborted.

### Returns

[Task ⧉](#)

A [Task ⧉](#) that represents the asynchronous Start operation.

# StopAsync(CancellationToken)

Triggered when the application host is performing a graceful shutdown.

```
public Task StopAsync(CancellationToken cancellationToken)
```

## Parameters

cancellationToken [CancellationToken⧉](#)

Indicates that the shutdown process should no longer be graceful.

## Returns

[Task⧉](#)

A [Task⧉](#) that represents the asynchronous Stop operation.

# Namespace AzureServiceBusFlow.Middlewar

## Interfaces

[IProducerMiddleware](IProducerMiddleware)

# Interface IProducerMiddleware

Namespace: [AzureServiceBusFlow](#).[Middlewar](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public interface IProducerMiddleware
```

## Methods

### InvokeAsync(ServiceBusMessage, Func<Task>)

```
Task InvokeAsync(ServiceBusMessage message, Func<Task> next)
```

#### Parameters

`message` [ServiceBusMessage](#)⬀

`next` [Func](#)⬀<[Task](#)⬀>

#### Returns

[Task](#)⬀

# Namespace AzureServiceBusFlow.Models

## Classes

[AzureServiceBusConfiguration](AzureServiceBusConfiguration)

[MessageOptions](MessageOptions)

# Class AzureServiceBusConfiguration

Namespace: [AzureServiceBusFlow](#).[Models](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public class AzureServiceBusConfiguration
```

**Inheritance**

[object](#) ← AzureServiceBusConfiguration

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Properties

## ConnectionString

```csharp
public required string ConnectionString { get; set; }
```

### Property Value

[string](#)

## MaxAutoLockRenewalDurationInSeconds

```csharp
public int MaxAutoLockRenewalDurationInSeconds { get; set; }
```

### Property Value

[int](#)

## MaxConcurrentCalls

```
public int MaxConcurrentCalls { get; set; }
```

## Property Value

int↗

# MaxRetryAttempts

```
public int MaxRetryAttempts { get; set; }
```

## Property Value

int↗

# ServiceBusReceiveMode

```
public required ServiceBusReceiveMode ServiceBusReceiveMode { get; set; }
```

## Property Value

ServiceBusReceiveMode↗

# Class MessageOptions

Namespace: [AzureServiceBusFlow](#).[Models](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public record MessageOptions : IEquatable<MessageOptions>
```

**Inheritance**

[object](#) ← MessageOptions

**Implements**

[IEquatable](#)<[MessageOptions](#)>

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## MessageOptions(TimeSpan?, IDictionary<string, object>?)

```csharp
public MessageOptions(TimeSpan? Delay, IDictionary<string, object>? ApplicationProperties)
```

### Parameters

`Delay` [TimeSpan](#)?

`ApplicationProperties` [IDictionary](#)<[string](#), [object](#)>

# Properties

## ApplicationProperties

```csharp
public IDictionary<string, object>? ApplicationProperties { get; init; }
```

### Property Value

IDictionary <string, object >

# Delay

```
public TimeSpan? Delay { get; init; }
```

## Property Value

TimeSpan?

# Namespace AzureServiceBusFlow.Producers

## Classes

[CommandProducer<TCommand>](#)

A producer responsible for dispatching command messages through the underlying Service Bus producer.

[EventProducer<TEvent>](#)

[ServiceBusProducer<TMessage>](#)

# Class CommandProducer<TCommand>

Namespace: [AzureServiceBusFlow](#).[Producers](#)

Assembly: AzureServiceBusFlow.Configurations.dll

A producer responsible for dispatching command messages through the underlying Service Bus producer.

```
public class CommandProducer<TCommand> : ICommandProducer<TCommand> where TCommand :
class, IServiceBusMessage
```

## Type Parameters

`TCommand`

The type of command being produced.

**Inheritance**

[object](#) ← CommandProducer<TCommand>

**Implements**

[ICommandProducer](#)<TCommand>

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## CommandProducer(IServiceBusProducer<TCommand>)

A producer responsible for dispatching command messages through the underlying Service Bus producer.

```
public CommandProducer(IServiceBusProducer<TCommand> producer)
```

## Parameters

`producer` [IServiceBusProducer](#)<TCommand>

# Methods

## ProduceCommandAsync(TCommand, MessageOptions, CancellationToken)

Produces the command using explicit message options such as delay or application properties.

```
public Task ProduceCommandAsync(TCommand command, MessageOptions messageOptions,
CancellationToken cancellationToken)
```

### Parameters

`command` TCommand

`messageOptions` [MessageOptions](#)

`cancellationToken` [CancellationToken⤢](#)

### Returns

[Task⤢](#)

## ProduceCommandAsync(TCommand, IDictionary<string, object>, CancellationToken)

Produces a command with application properties.

```
public Task ProduceCommandAsync(TCommand command, IDictionary<string, object>
applicationProperties, CancellationToken cancellationToken)
```

### Parameters

`command` TCommand

`applicationProperties` [IDictionary⤢](#)<[string⤢](#), [object⤢](#)>

`cancellationToken` [CancellationToken⤢](#)

## Returns

[Task](link)

# ProduceCommandAsync(TCommand, CancellationToken)

Produces the command without additional options.

```
public Task ProduceCommandAsync(TCommand command, CancellationToken cancellationToken)
```

## Parameters

`command` TCommand

`cancellationToken` [CancellationToken](link)

## Returns

[Task](link)

# ProduceCommandAsync(TCommand, TimeSpan, CancellationToken)

Produces a command with a delivery delay.

```
public Task ProduceCommandAsync(TCommand command, TimeSpan delay,
  CancellationToken cancellationToken)
```

## Parameters

`command` TCommand

`delay` [TimeSpan](link)

`cancellationToken` [CancellationToken](link)

## Returns

[Task](link)

# Class EventProducer<TEvent>

Namespace: [AzureServiceBusFlow](#).[Producers](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```csharp
public class EventProducer<TEvent> : IEventProducer<TEvent> where TEvent :
class, IServiceBusMessage
```

## Type Parameters

`TEvent`

**Inheritance**

[object](#) ← EventProducer<TEvent>

**Implements**

[IEventProducer](#)<TEvent>

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## EventProducer(IServiceBusProducer<TEvent>)

```csharp
public EventProducer(IServiceBusProducer<TEvent> producer)
```

## Parameters

`producer` [IServiceBusProducer](#)<TEvent>

# Methods

## ProduceEventAsync(TEvent, CancellationToken)

```csharp
public Task ProduceEventAsync(TEvent @event, CancellationToken cancellationToken)
```

## Parameters

`event` TEvent

`cancellationToken` [CancellationToken](⧉)

## Returns

[Task](⧉)

# Class ServiceBusProducer<TMessage>

Namespace: [AzureServiceBusFlow](#).[Producers](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
public class ServiceBusProducer<TMessage> : IServiceBusProducer<TMessage> where TMessage :
class, IServiceBusMessage
```

## Type Parameters

`TMessage`

**Inheritance**

[object](#) ← ServiceBusProducer<TMessage>

**Implements**

[IServiceBusProducer](#)<TMessage>

**Inherited Members**

[object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) ,
[object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#) , [object.ToString()](#)

# Constructors

## ServiceBusProducer(AzureServiceBusConfiguration, string, ILogger, IEnumerable<IProducerMiddleware>?)

```
public ServiceBusProducer(AzureServiceBusConfiguration azureServiceBusConfiguration, string
queueOrTopicName, ILogger logger, IEnumerable<IProducerMiddleware>? middlewares = null)
```

## Parameters

`azureServiceBusConfiguration` [AzureServiceBusConfiguration](#)

`queueOrTopicName` [string](#)

`logger` [ILogger](#)

middlewares IEnumerable&#x2197;<IProducerMiddleware>

# Methods

## ProduceAsync(TMessage, MessageOptions, CancellationToken)

Sends a message to the Azure Service Bus with custom producer options, such as delivery delay or application properties.

```
public Task ProduceAsync(TMessage message, MessageOptions producerOptions,
CancellationToken cancellationToken)
```

### Parameters

`message` TMessage

   The message to be sent.

`producerOptions` MessageOptions

   Additional options for message delivery.

`cancellationToken` CancellationToken&#x2197;

   A token to monitor for cancellation requests.

### Returns

Task&#x2197;

## ProduceAsync(TMessage, IDictionary<string, object>, CancellationToken)

Sends a message to the Azure Service Bus with application properties that can be used for downstream filtering or routing.

```
public Task ProduceAsync(TMessage message, IDictionary<string, object>
applicationProperties, CancellationToken cancellationToken)
```

## Parameters

`message` TMessage

    The message to be sent.

`applicationProperties` [IDictionary](⧉)<[string](⧉), [object](⧉)>

    Key-value pairs attached to the message.

`cancellationToken` [CancellationToken](⧉)

    A token to monitor for cancellation requests.

## Returns

[Task](⧉)

# ProduceAsync(TMessage, CancellationToken)

Sends a message to the Azure Service Bus without any additional options.

```
public Task ProduceAsync(TMessage message, CancellationToken cancellationToken)
```

## Parameters

`message` TMessage

    The message to be sent.

`cancellationToken` [CancellationToken](⧉)

    A token to monitor for cancellation requests.

## Returns

[Task](⧉)

# ProduceAsync(TMessage, TimeSpan, CancellationToken)

Sends a message to the Azure Service Bus with a specified delivery delay.

```
public Task ProduceAsync(TMessage message, TimeSpan delay, CancellationToken
cancellationToken)
```

## Parameters

`message` TMessage

The message to be sent.

`delay` TimeSpan⧉

The delay duration before the message becomes available.

`cancellationToken` CancellationToken⧉

A token to monitor for cancellation requests.

## Returns

Task⧉