

Namespace AzureServiceBusFlow.Abstractions

Interfaces

[ICommandProducer<TCommand>](#)

[IEventProducer<TEvent>](#)

[IMessageHandler<T>](#)

[IServiceBusMessage](#)

[IServiceBusProducer<TMessage>](#)

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)

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

Parameters

command TCommand

messageOptions [MessageOptions](#)

cancellationToken [CancellationToken](#)

Returns

[Task](#)

ProduceCommandAsync(TCommand, CancellationToken)


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

Parameters

command TCommand

cancellationToken [CancellationToken](#)

Returns

[Task](#)

Interface IEventProducer<TEvent>

Namespace: [AzureServiceBusFlow.Abstractions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

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

Type Parameters

TEvent

Methods

ProduceEventAsync(TEvent, CancellationToken)

```
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

```
public interface IServiceBusMessage
```

Properties

CreatedDate

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

Property Value

[DateTime](#)

RoutingKey

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

Property Value

[string](#)

Interface IServiceBusProducer<TMessage>

Namespace: [AzureServiceBusFlow.Abstractions](#)

Assembly: AzureServiceBusFlow.Configurations.dll

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

Type Parameters

TMessage

Methods

ProduceAsync(TMessage, MessageOptions, CancellationToken)

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

Parameters

message TMessage

producerOptions [MessageOptions](#)

cancellationToken [CancellationToken](#)

Returns

[Task](#)

ProduceAsync(TMessage, CancellationToken)

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

Parameters

message TMessage

cancellationToken [CancellationToken](#)↗

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

```
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)

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

Parameters

_azureServiceBusConfiguration [AzureServiceBusConfiguration](#)

services [IServiceCollection](#)

Methods

AddHandler<TMessage, THandler>()

```
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<TMessage>

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>

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](#)


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](#) 

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.Models

Classes

[AzureServiceBusConfiguration](#)

[MessageOptions](#)

Class AzureServiceBusConfiguration

Namespace: [AzureServiceBusFlow.Models](#)








Assembly: AzureServiceBusFlow.Configurations.dll

```
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

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

Property Value

[string](#) 

MaxAutoLockRenewalDurationInSeconds

```
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

```
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>?)

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

Parameters

Delay [TimeSpan](#)?

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

Properties

ApplicationProperties

```
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>](#)

[EventProducer<TEvent>](#)

[ServiceBusProducer<TMessage>](#)

Class CommandProducer<TCommand>

Namespace: [AzureServiceBusFlow.Producers](#)

Assembly: AzureServiceBusFlow.Configurations.dll

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

Type Parameters

TCommand








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>)

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

Parameters

producer [IServiceBusProducer](#)<TCommand>

Methods

ProduceCommandAsync(TCommand, MessageOptions,
CancellationToken)

```
public Task ProduceCommandAsync(TCommand command, MessageOptions messageOptions,
CancellationTokens cancellationTokens)
```

Parameters

command TCommand

messageOptions [MessageOptions](#)

cancellationTokens [CancellationTokens](#)

Returns

[Task](#)

ProduceCommandAsync(TCommand, CancellationTokens)

```
public Task ProduceCommandAsync(TCommand command, CancellationTokens cancellationTokens)
```

Parameters

command TCommand

cancellationTokens [CancellationTokens](#)

Returns

[Task](#)

Class EventProducer<TEvent>

Namespace: [AzureServiceBusFlow.Producers](#)

Assembly: AzureServiceBusFlow.Configurations.dll

```
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>)

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

Parameters

producer [IServiceBusProducer](#)<TEvent>


Methods

ProduceEventAsync(TEvent, CancellationToken)


```
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)

```
public ServiceBusProducer(AzureServiceBusConfiguration azureServiceBusConfiguration, string  
queueOrTopicName, ILogger logger)
```

Parameters

azureServiceBusConfiguration [AzureServiceBusConfiguration](#)

queueOrTopicName [string](#) 

logger [ILogger](#) 

Methods

ProduceAsync(TMessage, MessageOptions, CancellationToken)

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

Parameters

message TMessage

producerOptions [MessageOptions](#)

cancellationToken [CancellationToken](#)↗

Returns

[Task](#)↗

ProduceAsync(TMessage, CancellationToken)

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

Parameters

message TMessage

cancellationToken [CancellationToken](#)↗

Returns

[Task](#)↗