Namespace AzureServiceBusFlow.Abstractions

Interfaces

ICommandProducer<TCommand>

IEventProducer<TEvent>

IMessageHandler<T>

IServiceBusMessage

IServiceBusProducer<TMessage>

Interface ICommandProducer<TCommand>

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

Assembly: AzureServiceBusFlow.Configurations.dll

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

Type Parameters

`TCommand`

Methods

ProduceCommandAsync(TCommand, CancellationToken)

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

Parameters

`command` TCommand

`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

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

Type Parameters

`TMessage`

Methods

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

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

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

Property Value

[int](#)↗

MaxRetryAttempts

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

Property Value

[int](#)↗

ServiceBusReceiveMode

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

Property Value

[ServiceBusReceiveMode](#)↗

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, CancellationToken)

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

Parameters

command TCommand

cancellationToken CancellationToken⌁

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, CancellationToken)

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

Parameters

`message` TMessage

`cancellationToken` [CancellationToken⧉](#)

Returns

[Task⧉](#)