

Namespace Solstice.Scheduled.Core

Classes

[CoreBackgroundService](#)


Class CoreBackgroundService

Namespace: [Solstice.Scheduled.Core](#)

Assembly: Solstice.Scheduled.dll

```
public abstract class CoreBackgroundService : IHostedService
```

Inheritance

[object](#)  ← CoreBackgroundService








Implements

[IHostedService](#) 

Derived

[CoreQueuedBackgroundService](#), [CoreScopedProcessor<TDbContext>](#)

Inherited Members

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

Methods

ExecuteAsync(CancellationTokens)

```
protected virtual Task ExecuteAsync(CancellationTokens cancellationTokens)
```

Parameters

cancellationTokens [CancellationTokens](#) 

Returns

[Task](#) 

ProcessAsync(CancellationTokens)

```
protected abstract Task ProcessAsync(CancellationToken cancellationToken)
```

Parameters

`cancellationToken` [CancellationToken](#)

Returns

[Task](#)

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 Solstice.Scheduled.Injections

Classes

[ScheduledInjections](#)


Class ScheduledInjections

Namespace: [Solstice.Scheduled.Injections](#)

Assembly: Solstice.Scheduled.dll

```
public static class ScheduledInjections
```

Inheritance

[object](#)  ← ScheduledInjections

Inherited Members

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

Methods

AddCronServices(IServiceCollection, params Type[])

Injector to add hosted services to the services

```
public static void AddCronServices(this IServiceCollection services, params  
Type[] types)
```

Parameters

services [IServiceCollection](#) 

types [Type](#) []

Remarks

services.AddCronServices(typeof(HostedService1), typeof(HostedService2), ...)

Exceptions

[ArgumentException](#) 

AddQueue(IServiceCollection, int)

Injector to add a queue to the services

```
public static void AddQueue(this IServiceCollection services, int capacity = 100000)
```

Parameters

services [IServiceCollection](#)↗

capacity [int](#)↗

Queue capacity

Namespace Solstice.Scheduled.Queue

Classes

[CoreQueuedBackgroundService](#)

[DefaultBackgroundTaskQueue](#)

[QueueItem](#)

Interfaces

[IBackgroundTaskQueue](#)

Class CoreQueuedBackgroundService

Namespace: [Solstice.Scheduled.Queue](#)

Assembly: Solstice.Scheduled.dll

```
public sealed class CoreQueuedBackgroundService : CoreBackgroundService,  
IHostedService
```







Inheritance

[object](#)  ← [CoreBackgroundService](#) ← CoreQueuedBackgroundService

Implements

[IHostedService](#) 

Inherited Members

[CoreBackgroundService.StartAsync\(CancellationToken\)](#) , [object.Equals\(object\)](#)  ,
[object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

CoreQueuedBackgroundService(IBackgroundTaskQueue,
ILogger<CoreQueuedBackgroundService>)

```
public CoreQueuedBackgroundService(IBackgroundTaskQueue taskQueue,  
ILogger<CoreQueuedBackgroundService> logger)
```

Parameters

taskQueue [IBackgroundTaskQueue](#)

logger [ILogger](#)  <[CoreQueuedBackgroundService](#)>

Methods

ExecuteAsync(CancellationToken)

```
protected override Task ExecuteAsync(CancellationToken stoppingToken)
```

Parameters

`stoppingToken` [CancellationToken](#)

Returns

[Task](#)

ProcessAsync(CancellationToken)

```
protected override Task ProcessAsync(CancellationToken stoppingToken)
```

Parameters

`stoppingToken` [CancellationToken](#)

Returns

[Task](#)

StopAsync(CancellationToken)

```
public Task StopAsync(CancellationToken stoppingToken)
```

Parameters

`stoppingToken` [CancellationToken](#)

Returns

[Task](#)

Class DefaultBackgroundTaskQueue

Namespace: [Solstice.Scheduled.Queue](#)

Assembly: Solstice.Scheduled.dll

```
public sealed class DefaultBackgroundTaskQueue : IBackgroundTaskQueue
```







Inheritance

[object](#)  ← DefaultBackgroundTaskQueue

Implements

[IBackgroundTaskQueue](#)

Inherited Members


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

Constructors

DefaultBackgroundTaskQueue(int)

```
public DefaultBackgroundTaskQueue(int capacity)
```

Parameters

capacity [int](#) 

Methods

ClearChannel()

```
public void ClearChannel()
```

DequeueAsync(Cancellation_token)

```
public ValueTask<QueueItem> DequeueAsync(CancellationToken cancellationToken)
```

Parameters

`cancellationToken` [CancellationToken](#)

Returns

[ValueTask](#) <[QueueItem](#)>

QueueBackgroundWorkItemAsync(QueueItem)

```
public ValueTask QueueBackgroundWorkItemAsync(QueueItem workItem)
```

Parameters

`workItem` [QueueItem](#)

Returns

[ValueTask](#)

Interface IBackgroundTaskQueue

Namespace: [Solstice.Scheduled.Queue](#)

Assembly: Solstice.Scheduled.dll

```
public interface IBackgroundTaskQueue
```

Methods

ClearChannel()

```
void ClearChannel()
```

DequeueAsync(CancellationTokens)

```
ValueTask<QueueItem> DequeueAsync(CancellationTokens cancellationTokens)
```

Parameters

cancellationTokens [CancellationTokens](#)

Returns

[ValueTask](#) <[QueueItem](#)>

QueueBackgroundWorkItemAsync(QueueItem)

```
ValueTask QueueBackgroundWorkItemAsync(QueueItem workItem)
```

Parameters

workItem [QueueItem](#)

Returns

[ValueTask](#) 

Class QueueItem

Namespace: [Solstice.Scheduled.Queue](#)

Assembly: Solstice.Scheduled.dll

```
public class QueueItem
```

Inheritance

[object](#)  ← QueueItem

Inherited Members

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

Properties

Guid

```
public Guid Guid { get; init; }
```

Property Value

[Guid](#) 

WorkItem

```
public Func<CancellationToken, Task>? WorkItem { get; init; }
```

Property Value

[Func](#)  <[CancellationToken](#)  , [Task](#)  >

Namespace Solstice.Scheduled.Scheduled

Classes

[CoreScheduledProcessor<TDbContext>](#)

[CoreScopedProcessor<TDbContext>](#)

Class

CoreScheduledProcessor<TDbContext>

Namespace: [Solstice.Scheduled.Scheduled](#)

Assembly: Solstice.Scheduled.dll

```
public abstract class CoreScheduledProcessor<TDbContext> :  
    CoreScopedProcessor<TDbContext>, IHostedService where TDbContext : DbContext
```

Type Parameters

TDbContext








Inheritance

[object](#)  < [CoreBackgroundService](#) < [CoreScopedProcessor](#)<TDbContext> <
CoreScheduledProcessor<TDbContext>

Implements

[IHostedService](#) 

Inherited Members

[CoreScopedProcessor<TDbContext>._serviceScopeFactory](#) ,
[CoreScopedProcessor<TDbContext>.ProcessAsync\(CancellationToken\)](#) ,
[CoreScopedProcessor<TDbContext>.ProcessInScopeAsync\(TDbContext, CancellationToken\)](#)
 ,
[CoreBackgroundService.StartAsync\(CancellationToken\)](#) ,
[CoreBackgroundService.StopAsync\(CancellationToken\)](#) , [object.Equals\(object\)](#)  ,
[object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

CoreScheduledProcessor(IServiceScopeFactory)

```
protected CoreScheduledProcessor(IServiceScopeFactory serviceScopeFactory)
```

Parameters

serviceScopeFactory [IServiceScopeFactory](#)

Properties

Schedule

```
protected abstract string Schedule { get; }
```

Property Value

[string](#)

Methods

ExecuteAsync(CancellationToken)

```
protected override Task ExecuteAsync(CancellationToken stoppingToken)
```

Parameters

stoppingToken [CancellationToken](#)

Returns

[Task](#)

Class CoreScopedProcessor<TDbContext>

Namespace: [Solstice.Scheduled.Scheduled](#)


Assembly: Solstice.Scheduled.dll

```
public abstract class CoreScopedProcessor<TDbContext> : CoreBackgroundService,  
IHostedService where TDbContext : DbContext
```

Type Parameters

TDbContext

Inheritance

[object](#)  ← [CoreBackgroundService](#) ← CoreScopedProcessor<TDbContext>








Implements

[IHostedService](#) 

Derived

[CoreScheduledProcessor<TDbContext>](#)

Inherited Members

[CoreBackgroundService.StartAsync\(CancellationToken\)](#) ,
[CoreBackgroundService.StopAsync\(CancellationToken\)](#) ,
[CoreBackgroundService.ExecuteAsync\(CancellationToken\)](#) , [object.Equals\(object\)](#)  ,
[object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Constructors

CoreScopedProcessor(IServiceScopeFactory)

```
protected CoreScopedProcessor(IServiceScopeFactory serviceScopeFactory)
```

Parameters

serviceScopeFactory [IServiceScopeFactory](#) 

Fields

_serviceScopeFactory

`protected readonly IServiceScopeFactory _serviceScopeFactory`

Field Value

[IServiceScopeFactory](#)

Methods

ProcessAsync(CancellationToken)

`protected override Task ProcessAsync(CancellationToken cancellationToken)`

Parameters

`cancellationToken` [CancellationToken](#)

Returns

[Task](#)

ProcessInScopeAsync(TDbContext, CancellationToken)

`public abstract Task ProcessInScopeAsync(TDbContext dbContext, CancellationToken cancellationToken)`

Parameters

`dbContext` TDbContext

`cancellationToken` [CancellationToken](#)

Returns

