

library ahbsd.lib

1.2.1

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# Chapter 1

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## Chapter 2

# ahbsd.lib

Classes with functionality I miss

- For example generic EventArgs or EventArgs for changing values. These two are in version 1.0.
- In Version 1.0.1 some classes for generic API-Keys were added.
- In Version 1.2.0 some code beautification was done, the license changes to Apache 2.0 and a generic Exception was added.

### 2.1 About generic EventArgs

The generic EventArgs have a generic Value that could be set with the constructor.

### 2.2 About generic ChangeEventArgs

The generic ChangeEventArgs have two generic values. One for the old value and one for the new value.



## Chapter 3

# Namespace Index

### 3.1 Packages

Here are the packages with brief descriptions (if available):

<a href="#">ahbsd</a>	15
<a href="#">ahbsd.lib</a>	15
<a href="#">ahbsd.lib.ApiKey</a>	16
<a href="#">ahbsd.lib.Exceptions</a>	17
<a href="#">ahbsd.lib.Tools</a>	17
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## Chapter 4

# Hierarchical Index

### 4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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Test.TestClass< T, A > . . . . .	41
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Test.TestClass< T, A > . . . . .	41
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## Chapter 5

# Class Index

### 5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">ahbsd.lib.ApiKey.ApiKeyEventArgs&lt; T &gt;</a>	
Specialized generic <a href="#">EventArgs</a> for API-Keys	19
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An interface for a class to demonstrate <a href="#">ChangeEventArgs&lt;T&gt;</a> and <a href="#">ChangeEventHandler&lt;T&gt;</a>	40
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A class to demonstrate <a href="#">ChangeEventArgs&lt;T&gt;</a> and <a href="#">ChangeEventHandler&lt;T&gt;</a>	41



## Chapter 6

# File Index

### 6.1 File List

Here is a list of all files with brief descriptions:

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## Chapter 7

# Namespace Documentation

### 7.1 ahbsd Namespace Reference

#### Namespaces

- namespace [lib](#)

### 7.2 ahbsd.lib Namespace Reference

#### Namespaces

- namespace [ApiKey](#)
- namespace [Exceptions](#)
- namespace [Tools](#)

#### Classes

- class [ChangeEventArgs](#)  
*Generic [EventArgs](#) for changing values.*
- class [EventArgs](#)  
*Generic [EventArgs](#).*
- interface [IChangeEventArgs](#)  
*Interface for generic [EventArgs](#) for changing values.*
- interface [IEventArgs](#)  
*Interface for generic [EventArgs](#).*

#### Functions

- delegate void [ChangeEventHandler< T >](#) (object sender, [ChangeEventArgs< T >](#) e)  
*A delegate for change events.*

## 7.2.1 Function Documentation

### 7.2.1.1 `ChangeEventHandler< T >()`

```
delegate void ahbsd.lib.ChangeEventHandler< T > (
    object sender,
    ChangeEventArgs< T > e )
```

A delegate for change events.

#### Template Parameters

<i>T</i>	The type of changing values.
----------	------------------------------

#### Parameters

<i>sender</i>	Sending object.
<i>e</i>	The changing <a href="#">EventArgs</a> .

## 7.3 ahbsd.lib.ApiKey Namespace Reference

### Classes

- class [ApiKeyEventArgs](#)  
*Specialized generic [EventArgs](#) for API-Keys.*
- class [ApiKeyHolder](#)  
*Class for generic API-Keys.*
- interface [IApiKeyEventArgs](#)  
*Interface for [ApiKeyEventArgs](#)<T>.*

### Functions

- delegate void [ApiKeyEventHandler< T >](#) (object sender, [ApiKeyEventArgs](#)< T > e)  
*Delegate for events with generic API-Keys.*

## 7.3.1 Function Documentation

### 7.3.1.1 `ApiKeyEventHandler< T >()`

```
delegate void ahbsd.lib.ApiKey.ApiKeyEventHandler< T > (
    object sender,
    ApiKeyEventArgs< T > e )
```

Delegate for events with generic API-Keys.

## Template Parameters

<i>T</i>	The Type of the API-Key.
----------	--------------------------

## Parameters

<i>sender</i>	The sending object.
<i>e</i>	The event arguments with a generic API-Key.

## 7.4 ahbsd.lib.Exceptions Namespace Reference

### Classes

- class [Exception](#)  
*Class for a generic [Exception](#), which additionally holds a value of *T**
- interface [IGenericException](#)  
*Interface for generic exceptions.*

## 7.5 ahbsd.lib.Tools Namespace Reference

### Classes

- class **ConsolePrintTable**  
*Static class to print a *DataTable* to console.*

## 7.6 Test Namespace Reference

### Classes

- interface [ITestClass](#)  
*An interface for a class to demonstrate *ChangeEventArgs<T>* and *ChangeEventHandler<T>*.*
- class [Program](#)  
*The test program.*
- class [TestClass](#)  
*A class to demonstrate *ChangeEventArgs<T>* and *ChangeEventHandler<T>*.*





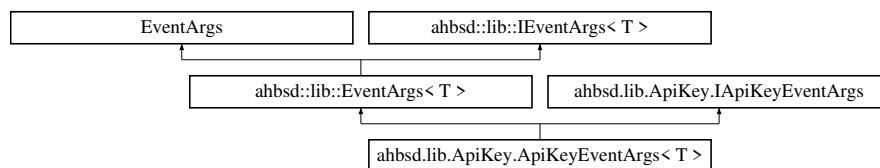
## Chapter 8

# Class Documentation

### 8.1 ahbsd.lib.ApiKey.ApiKeyEventArgs< T > Class Template Reference

Specialized generic [EventArgs](#) for API-Keys.

Inheritance diagram for ahbsd.lib.ApiKey.ApiKeyEventArgs< T >:



#### Public Member Functions

- [ApiKeyEventArgs](#) (T apiKey, int idx)  
*Constructor with the API-Key and the index of the API-Key.*
- [ApiKeyEventArgs](#) (T apiKey)  
*Constructor with the API-Key.*

#### Properties

- int? [Index](#) [get]  
*Gets the index of the API-Key.*

#### 8.1.1 Detailed Description

Specialized generic [EventArgs](#) for API-Keys.

##### Template Parameters

<i>T</i>	Type of API-Key.
----------	------------------

See also

`ApiKeyHolder<T>`

## 8.1.2 Constructor & Destructor Documentation

### 8.1.2.1 ApiKeyEventArgs() [1/2]

```
ahbsd.lib.ApiKey.ApiKeyEventArgs< T >.ApiKeyEventArgs (
    T apiKey,
    int idx )
```

Constructor with the API-Key and the index of the API-Key.

Parameters

<i>apiKey</i>	The API-Key.
<i>idx</i>	The index of the API-Key.

### 8.1.2.2 ApiKeyEventArgs() [2/2]

```
ahbsd.lib.ApiKey.ApiKeyEventArgs< T >.ApiKeyEventArgs (
    T apiKey )
```

Constructor with the API-Key.

Parameters

<i>apiKey</i>	The API-Key.
---------------	--------------

## 8.1.3 Property Documentation

### 8.1.3.1 Index

```
int? ahbsd.lib.ApiKey.ApiKeyEventArgs< T >.Index [get]
```

Gets the index of the API-Key.

The index.

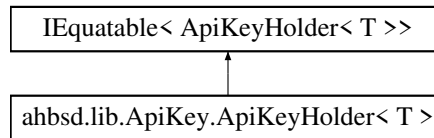
The documentation for this class was generated from the following file:

- [ahbsd.lib/ApiKey/ApiKeyEventArgs.cs](#)

## 8.2 ahbsd.lib.ApiKey.ApiKeyHolder< T > Class Template Reference

Class for generic API-Keys.

Inheritance diagram for ahbsd.lib.ApiKey.ApiKeyHolder< T >:



### Public Member Functions

- [ApiKeyHolder](#) (T apiKey)  
*Constructor with a given API-Key.*
- [ApiKeyHolder](#) ()  
*Constructor without parameters.*
- override bool [Equals](#) (object obj)  
*Find out, if this object equals another given object.*
- override int [GetHashCode](#) ()  
*Gets the HashCode.*
- bool [Equals](#) (ApiKeyHolder< T > other)  
*Find out, if this object equals another given object.*

### Static Public Member Functions

- static ? int [FindApiKey](#) (T apiKey)  
*Looks for a given API-Key.*
- static T [GetApiKey](#) (int idx)  
*Returns an API-Key from a defined index number.*
- static bool [operator==](#) (ApiKeyHolder< T > left, ApiKeyHolder< T > right)  
*Find out if two objects equals.*
- static bool [operator!=](#) (ApiKeyHolder< T > left, ApiKeyHolder< T > right)  
*Find out if two objects do not equals.*

### Static Protected Attributes

- static List< T > [knownApiKeys](#)  
*A list of all known API-Keys.*

### Properties

- T [ApiKey](#) [get]  
*Gets the API-Key.*

### Events

- static ApiKeyEventHandler< T > [OnApiKeyAdded](#)  
*Happens if a new API-Key was added to the static list [knownApiKeys](#).*

#### 8.2.1 Detailed Description

Class for generic API-Keys.

## Template Parameters

<i>T</i>	Type of API-Key
----------	-----------------

## 8.2.2 Constructor & Destructor Documentation

### 8.2.2.1 ApiKeyHolder() [1/2]

```
ahbsd.lib.ApiKey.ApiKeyHolder< T >.ApiKeyHolder (
    T apiKey )
```

Constructor with a given API-Key.

## Parameters

<i>apiKey</i>	The API-Key.
---------------	--------------

### 8.2.2.2 ApiKeyHolder() [2/2]

```
ahbsd.lib.ApiKey.ApiKeyHolder< T >.ApiKeyHolder ( )
```

Constructor without parameters.

If before an object was created, the last API-Key will be used. Otherwise the default of `T` will be used.

## Exceptions

<i>ArgumentNullException</i>	If <code>knownApiKeys</code> is <code>null</code> or something similar.
<i>InvalidOperationException</i>	If anything regarding <code>knownApiKeys</code> is an invalid operation.

## 8.2.3 Member Function Documentation

### 8.2.3.1 Equals() [1/2]

```
bool ahbsd.lib.ApiKey.ApiKeyHolder< T >.Equals (
    ApiKeyHolder< T > other )
```

Find out, if this object equals another given object.

## Parameters

<i>other</i>	The other object.
--------------	-------------------

## Returns

If both objects equals `TRUE`, otherwise `FALSE`.

**8.2.3.2 Equals()** [2/2]

```
override bool ahbsd.lib.ApiKey.ApiKeyHolder< T >.Equals (
    object obj )
```

Find out, if this object equals another given object.

## Parameters

<i>obj</i>	The other object.
------------	-------------------

## Returns

If both objects equals `TRUE`, otherwise `FALSE`.

**8.2.3.3 FindApiKey()**

```
static ? int ahbsd.lib.ApiKey.ApiKeyHolder< T >.FindApiKey (
    T apiKey ) [static]
```

Looks for a given API-Key.

## Parameters

<i>apiKey</i>	The given API-Key.
---------------	--------------------

## Returns

If found it returns the index, if not `null` is returned.

**8.2.3.4 GetApiKey()**

```
static T ahbsd.lib.ApiKey.ApiKeyHolder< T >.GetApiKey (
    int idx ) [static]
```

Returns an API-Key from a defined index number.

**Parameters**

<i>idx</i>	The defined index number.
------------	---------------------------

**Returns**

An API-Key.

**8.2.3.5 GetHashCode()**

```
override int ahbsd.lib.ApiKey.ApiKeyHolder< T >.GetHashCode ( )
```

Gets the HashCode.

**Returns**

The HashCode.

**8.2.3.6 operator"!="()**

```
static bool ahbsd.lib.ApiKey.ApiKeyHolder< T >.operator!= (
    ApiKeyHolder< T > left,
    ApiKeyHolder< T > right ) [static]
```

Find out if two objects do not equals.

**Parameters**

<i>left</i>	The object on the left side.
<i>right</i>	The object on the right side.

**Returns**

If both objects do not equals TRUE, otherwise FALSE.

**8.2.3.7 operator==( )**

```
static bool ahbsd.lib.ApiKey.ApiKeyHolder< T >.operator== (
    ApiKeyHolder< T > left,
    ApiKeyHolder< T > right ) [static]
```

Find out if two objects equals.

#### Parameters

<i>left</i>	The object on the left side.
<i>right</i>	The object on the right side.

#### Returns

If both objects equals `TRUE`, otherwise `FALSE`.

## 8.2.4 Member Data Documentation

### 8.2.4.1 knownApiKeys

```
List<T> ahbsd.lib.ApiKey.ApiKeyHolder< T >.knownApiKeys [static], [protected]
```

A list of all known API-Keys.

Of current instances. Is eg needed for construction without api-key etc.

## 8.2.5 Property Documentation

### 8.2.5.1 ApiKey

```
T ahbsd.lib.ApiKey.ApiKeyHolder< T >.ApiKey [get], [protected]
```

Gets the API-Key.

The API-Key.

## 8.2.6 Event Documentation

### 8.2.6.1 OnApiKeyAdded

```
ApiKeyEventHandler<T> ahbsd.lib.ApiKey.ApiKeyHolder< T >.OnApiKeyAdded [static], [protected]
```

Happens if a new API-Key was added to the static list [knownApiKeys](#).

The documentation for this class was generated from the following file:

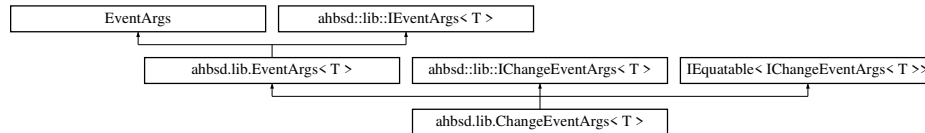
- [ahbsd.lib/ApiKey/ApiKeyHolder.cs](#)



## 8.3 ahbsd.lib.ChangeEventArgs< T > Class Template Reference

Generic [EventArgs](#) for changing values.

Inheritance diagram for ahbsd.lib.ChangeEventArgs< T >:



### Public Member Functions

- [ChangeEventArgs](#) ()  
*Constructor without any parameters.*
- [ChangeEventArgs](#) (T oldValue, T newValue)  
*Constructor with the old and the new value.*
- [ChangeEventArgs](#) (T oldValue)  
*Constructor with the old value.*
- void [SetNewValue](#) (T newValue)  
*Sets the new value.*
- override string [ToString](#) ()  
*Gets a string representation of the changed value.*
- bool [Equals](#) (IChangeEventArgs< T > other)  
*Finds out wheather an other object of type IChangeEventArgs< T > equals this object.*
- override bool [Equals](#) (object obj)  
*Finds out wheather an other object equals this object.*
- override int [GetHashCode](#) ()  
*Gets the HashCode of this object.*

### Static Public Member Functions

- static bool [operator==](#) (ChangeEventArgs< T > left, ChangeEventArgs< T > right)  
*Finds out, if two objects of type ChangeEventArgs< T > equals each other.*
- static bool [operator!=](#) (ChangeEventArgs< T > left, ChangeEventArgs< T > right)  
*Finds out, if two objects of type ChangeEventArgs< T > do not equals each other.*

### Properties

- T [OldValue](#) [get]  
*Gets the old value.*
- T [NewValue](#) [get]  
*Gets the new value.*

#### 8.3.1 Detailed Description

Generic [EventArgs](#) for changing values.

## Template Parameters

<i>T</i>	The type of the changing Values.
----------	----------------------------------

## 8.3.2 Constructor & Destructor Documentation

### 8.3.2.1 ChangeEventArgs() [1/3]

```
ahbsd.lib.ChangeEventArgs< T >.ChangeEventArgs ( )
```

Constructor without any parameters.

### 8.3.2.2 ChangeEventArgs() [2/3]

```
ahbsd.lib.ChangeEventArgs< T >.ChangeEventArgs (
    T oldValue,
    T newValue )
```

Constructor with the old and the new value.

## Parameters

<i>oldValue</i>	The old value.
<i>newValue</i>	The new value.

### 8.3.2.3 ChangeEventArgs() [3/3]

```
ahbsd.lib.ChangeEventArgs< T >.ChangeEventArgs (
    T oldValue )
```

Constructor with the old value.

## Parameters

<i>oldValue</i>	The old value.
-----------------	----------------

## 8.3.3 Member Function Documentation

**8.3.3.1 Equals()** [1/2]

```
bool ahbsd.lib.ChangeEventArgs< T >.Equals (
    IChangeEventArgs< T > other )
```

Finds out wheather an other object of type IChangeEventArgs<T> equals this object.

**Parameters**

<i>other</i>	The other object.
--------------	-------------------

**Returns**

TRUE if the other object equals this object, otherwise FALSE.

**8.3.3.2 Equals()** [2/2]

```
override bool ahbsd.lib.ChangeEventArgs< T >.Equals (
    object obj )
```

Finds out wheather an other object equals this object.

**Parameters**

<i>obj</i>	The other object.
------------	-------------------

**Returns**

TRUE if the other object equals this object, otherwise FALSE.

**8.3.3.3 GetHashCode()**

```
override int ahbsd.lib.ChangeEventArgs< T >.GetHashCode ( )
```

Gets the HashCode of this object.

**Returns**

The HashCode.

**8.3.3.4 operator!=()**

```
static bool ahbsd.lib.ChangeEventArgs< T >.operator!= (
    ChangeEventArgs< T > left,
    ChangeEventArgs< T > right ) [static]
```

Finds out, if two objects of type ChangeEventArgs<T> do not eaquals each other.

**Parameters**

<i>left</i>	The object on the left side.
<i>right</i>	The object on the right side.

**Returns**

TRUE if both objects are not equal, otherwise FALSE.

**8.3.3.5 operator==()**

```
static bool ahbsd.lib.ChangeEventArgs< T >.operator== (
    ChangeEventArgs< T > left,
    ChangeEventArgs< T > right ) [static]
```

Finds out, if two objects of type [ChangeEventArgs<T>](#) equals each other.

**Parameters**

<i>left</i>	The object on the left side.
<i>right</i>	The object on the right side.

**Returns**

TRUE if both objects are equal, otherwise FALSE.

**8.3.3.6 SetNewValue()**

```
void ahbsd.lib.ChangeEventArgs< T >.SetNewValue (
    T newValue )
```

Sets the new value.

**Parameters**

<i>newValue</i>	The new value.
-----------------	----------------

**Exceptions**

<i>Exception</i>	If the <a href="#">NewValue</a> was already set.
------------------	--

Implements [ahbsd.lib.IChangeEventArgs< T >](#).

### 8.3.3.7 ToString()

```
override string ahbsd.lib.ChangeEventArgs< T >.ToString ( )
```

Gets a string representation of the changed value.

#### Returns

A string representation of the changed value.

Implements [ahbsd.lib.IChangeEventArgs< T >](#).

## 8.3.4 Property Documentation

### 8.3.4.1 NewValue

```
T ahbsd.lib.ChangeEventArgs< T >.NewValue [get]
```

Gets the new value.

The new value.

### 8.3.4.2 OldValue

```
T ahbsd.lib.ChangeEventArgs< T >.OldValue [get]
```

Gets the old value.

The old value.

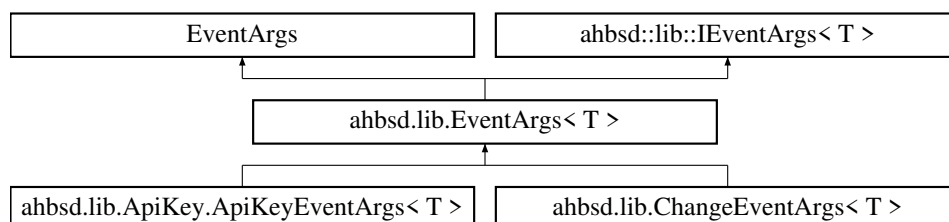
The documentation for this class was generated from the following file:

- [ahbsd.lib/ChangeEventArgs.cs](#)

## 8.4 ahbsd.lib.EventArgs< T > Class Template Reference

Generic [EventArgs](#).

Inheritance diagram for ahbsd.lib.EventArgs< T >:



## Public Member Functions

- [EventArgs](#) ()  
*Constructor without parameters.*
- [EventArgs](#) (T val)  
*Constructor with a value.*

## Properties

- T [Value](#) [get]  
*Gets a value.*

### 8.4.1 Detailed Description

Generic [EventArgs](#).

Template Parameters

<i>T</i>	Type of <a href="#">Value</a> .
----------	---------------------------------

### 8.4.2 Constructor & Destructor Documentation

#### 8.4.2.1 EventArgs() [1/2]

```
ahbsd.lib.EventArgs< T >.EventArgs ( )
```

Constructor without parameters.

#### 8.4.2.2 EventArgs() [2/2]

```
ahbsd.lib.EventArgs< T >.EventArgs (  
    T val )
```

Constructor with a value.

Parameters

<i>val</i>	A value.
------------	----------

### 8.4.3 Property Documentation

#### 8.4.3.1 Value

`T ahbsd.lib.EventArgs< T >.Value [get]`

Gets a value.

A value.

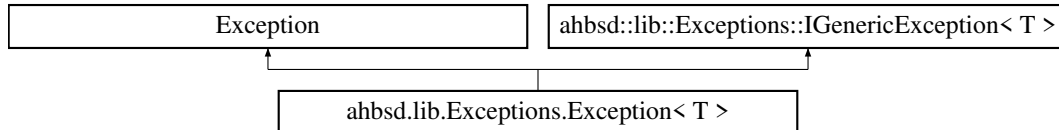
The documentation for this class was generated from the following file:

- [ahbsd.lib/EventArgs.cs](#)

## 8.5 ahbsd.lib.Exceptions.Exception< T > Class Template Reference

Class for a generic [Exception](#), which additionally holds a value of T

Inheritance diagram for `ahbsd.lib.Exceptions.Exception< T >`:



### Protected Member Functions

- [Exception\(\)](#) [Exception\(T value\)](#) [Exception\(string message\)](#) [Exception\(string message, T value\)](#) [Exception\(string message, \[Exception\]\(#\) innerException\)](#) [Exception\(SerializationInfo info, StreamingContext context\)](#)

*Constructor without any parameters.*

### Properties

- [Exception\(string message, T value, \[Exception\]\(#\) innerException\)](#) `T Value [get]`

*Constructor with a message, a value and an inner exception.*

### 8.5.1 Detailed Description

Class for a generic [Exception](#), which additionally holds a value of T

Template Parameters

<code>T</code>	The type.
----------------	-----------

## 8.5.2 Constructor & Destructor Documentation

### 8.5.2.1 Exception()

```
Exception () Exception (T value) Exception (string message) Exception (string message, T value)
Exception (string message, Exception innerException) ahbsd.lib.Exceptions.Exception< T >.Exception
(
    SerializationInfo info,
    StreamingContext context ) [protected]
```

Constructor without any parameters.

Constructor with a value.

#### Parameters

<i>value</i>	The value.
--------------	------------

Constructor with a message.

#### Parameters

<i>message</i>	The Message.
----------------	--------------

Constructor with a message and a value.

#### Parameters

<i>message</i>	The Message.
<i>value</i>	The value.

Constructor with a message and an inner exception.

#### Parameters

<i>message</i>	The Message.
<i>innerException</i>	The inner <a href="#">Exception</a> .

Constructor with serialized data.

#### Parameters

<i>info</i>	The serialization info.
<i>context</i>	The straming content.



### 8.5.3 Property Documentation

#### 8.5.3.1 Value

```
Exception (string message, T value, Exception innerException) T ahbsd.lib.Exceptions.Exception<
T >.Value [get]
```

Constructor with a message, a value and an inner exception.

##### Parameters

<i>message</i>	The Message.
<i>value</i>	The value.
<i>innerException</i>	The inner <a href="#">Exception</a> .

Gets the value of type T.

The value of type T.

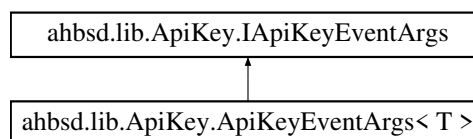
The documentation for this class was generated from the following file:

- ahbsd.lib/Exceptions/[Exception.cs](#)

## 8.6 ahbsd.lib.ApiKey.IApiKeyEventArgs Interface Reference

Interface for ApiKeyEventArgs<T>.

Inheritance diagram for ahbsd.lib.ApiKey.IApiKeyEventArgs:



### Properties

- int? [Index](#) [get]  
*Gets the index of the API-Key.*

#### 8.6.1 Detailed Description

Interface for ApiKeyEventArgs<T>.

## 8.6.2 Property Documentation

### 8.6.2.1 Index

```
int? ahbsd.lib.ApiKey.IApiKeyEventArgs.Index [get]
```

Gets the index of the API-Key.

The index.

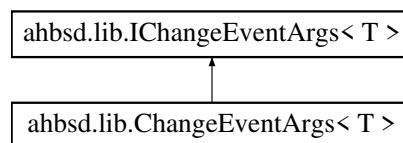
The documentation for this interface was generated from the following file:

- [ahbsd.lib.ApiKey/IApiKeyEventArgs.cs](#)

## 8.7 ahbsd.lib.IChangeEventArgs< T > Interface Template Reference

Interface for generic [EventArgs](#) for changing values.

Inheritance diagram for ahbsd.lib.IChangeEventArgs< T >:



### Public Member Functions

- void [SetNewValue](#) (T newValue)  
*Sets the new value.*
- string [ToString](#) ()  
*Gets a string representation of the changed value.*

### Properties

- T [OldValue](#) [get]  
*Gets the old value.*
- T [NewValue](#) [get]  
*Gets the new value.*

### 8.7.1 Detailed Description

Interface for generic [EventArgs](#) for changing values.

## Template Parameters

<i>T</i>	The type of the changing Values.
----------	----------------------------------

## 8.7.2 Member Function Documentation

### 8.7.2.1 SetNewValue()

```
void ahbsd.lib.IChangeEventArgs< T >.SetNewValue (
    T newValue )
```

Sets the new value.

## Parameters

<i>newValue</i>	The new value.
-----------------	----------------

## Exceptions

<i>Exception</i>	If the <a href="#">NewValue</a> was already set.
------------------	--

Implemented in [ahbsd.lib.ChangeEventArgs< T >](#).

### 8.7.2.2 ToString()

```
string ahbsd.lib.IChangeEventArgs< T >.ToString ( )
```

Gets a string representation of the changed value.

## Returns

A string representation of the changed value.

Implemented in [ahbsd.lib.ChangeEventArgs< T >](#).

## 8.7.3 Property Documentation

### 8.7.3.1 NewValue

`T ahbsd.lib.IChangeEventArgs< T >.NewValue [get]`

Gets the new value.

The new value.

### 8.7.3.2 OldValue

`T ahbsd.lib.IChangeEventArgs< T >.OldValue [get]`

Gets the old value.

The old value.

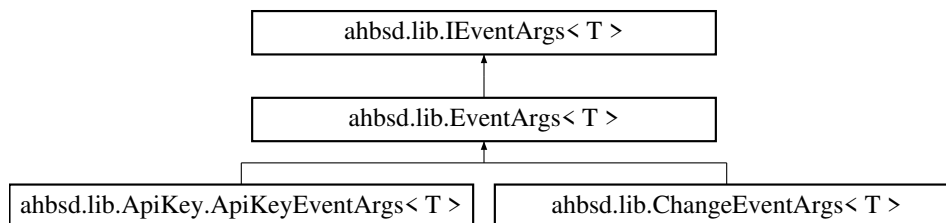
The documentation for this interface was generated from the following file:

- [ahbsd.lib/IChangeEventArgs.cs](#)

## 8.8 ahbsd.lib.IEventArgs< T > Interface Template Reference

Interface for generic [EventArgs](#).

Inheritance diagram for `ahbsd.lib.IEventArgs< T >`:



### Properties

- `T Value [get]`  
*Gets a value.*

### 8.8.1 Detailed Description

Interface for generic [EventArgs](#).

Template Parameters

<code>T</code>	Type of Value.
----------------	----------------

The difference to usual [EventArgs](#) is, that a generic value is added.

## 8.8.2 Property Documentation

### 8.8.2.1 Value

```
T ahbsd.lib.IEventArgs< T >.Value [get]
```

Gets a value.

A value.

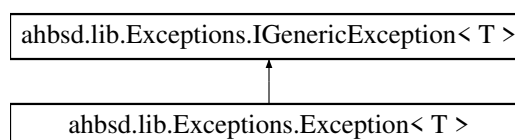
The documentation for this interface was generated from the following file:

- [ahbsd.lib/IEventArgs.cs](#)

## 8.9 ahbsd.lib.Exceptions.IGenericException< T > Interface Template Reference

Interface for generic exceptions.

Inheritance diagram for ahbsd.lib.Exceptions.IGenericException< T >:



### Properties

- T [Value](#) [get]  
*Gets the value of type T.*

### 8.9.1 Detailed Description

Interface for generic exceptions.

#### Template Parameters

<i>T</i>	Selectable type.
----------	------------------

## 8.9.2 Property Documentation

### 8.9.2.1 Value

`T ahbsd.lib.Exceptions.IGenericException< T >.Value [get]`

Gets the value of type T.

The value of type T.

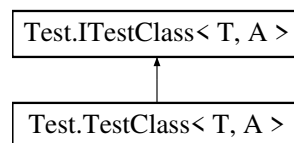
The documentation for this interface was generated from the following file:

- [ahbsd.lib/Exceptions/IGenericException.cs](#)

## 8.10 Test.ITestClass< T, A > Interface Template Reference

An interface for a class to demonstrate ChangeEventArgs<T> and ChangeEventHandler<T>.

Inheritance diagram for Test.ITestClass< T, A >:



### Properties

- `T Variable [get, set]`

*Gets or sets a variable.*

### Events

- `ChangeEventHandler< T > OnChange`

*Happenes when [Variable](#) has changed.*

### 8.10.1 Detailed Description

An interface for a class to demonstrate ChangeEventArgs<T> and ChangeEventHandler<T>.

#### Template Parameters

<code>T</code>	Type of <a href="#">Variable</a> .
<code>A</code>	Type of API-Key.

## 8.10.2 Property Documentation

### 8.10.2.1 Variable

`T Test.ITestClass< T, A >.Variable [get], [set]`

Gets or sets a variable.

## 8.10.3 Event Documentation

### 8.10.3.1 OnChange

`ChangeEventHandler<T> Test.ITestClass< T, A >.OnChange`

Happenes when [Variable](#) has changed.

The documentation for this interface was generated from the following file:

- [Test/ITestClass.cs](#)

## 8.11 Test.Program Class Reference

The test program.

### 8.11.1 Detailed Description

The test program.

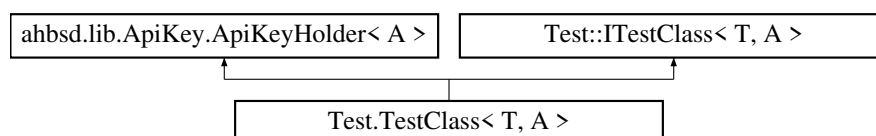
The documentation for this class was generated from the following file:

- [Test/Program.cs](#)

## 8.12 Test.TestClass< T, A > Class Template Reference

A class to demonstrate `ChangeEventArgs<T>` and `ChangeEventHandler<T>`.

Inheritance diagram for `Test.TestClass< T, A >`:



## Public Member Functions

- [TestClass](#) ()  
*Constructor without parameters.*
- [TestClass](#) (T v)  
*Constructor with a given variable.*
- [TestClass](#) (A apiKey)  
*Constructor with a given API-Key.*
- [TestClass](#) (T v, A apiKey)  
*Constructor with a given value and a given API-Key.*

## Properties

- T?? [Variable](#) [get, set]  
*Gets or sets a variable.*

## Events

- ChangeEventHandler< T > [OnChange](#)  
*Happenes when [Variable](#) has changed.*

## Additional Inherited Members

### 8.12.1 Detailed Description

A class to demonstrate ChangeEventArgs<T> and ChangeEventHandler<T>.

#### Template Parameters

<i>T</i>	Type of <a href="#">Variable</a> .
<i>A</i>	Type of API-Key.

### 8.12.2 Constructor & Destructor Documentation

#### 8.12.2.1 TestClass() [1/4]

```
Test.TestClass< T, A >.TestClass ( )
```

Constructor without parameters.



**8.12.2.2 TestClass()** [2/4]

```
Test.TestClass< T, A >.TestClass (
    T v )
```

Constructor with a given variable.

**Parameters**

<i>v</i>	The given variable.
----------	---------------------

**8.12.2.3 TestClass()** [3/4]

```
Test.TestClass< T, A >.TestClass (
    A apiKey )
```

Constructor with a given API-Key.

**Parameters**

<i>apiKey</i>	The given API-Key.
---------------	--------------------

**8.12.2.4 TestClass()** [4/4]

```
Test.TestClass< T, A >.TestClass (
    T v,
    A apiKey )
```

Constructor with a given value and a given API-Key.

**Parameters**

<i>v</i>	The given variable.
<i>apiKey</i>	The given API-Key.

**8.12.3 Property Documentation****8.12.3.1 Variable**

```
T?? Test.TestClass< T, A >.Variable [get], [set]
```

Gets or sets a variable.

## 8.12.4 Event Documentation

### 8.12.4.1 OnChange

`ChangeEventHandler<T> Test.TestClass< T, A >.OnChange`

Happenes when [Variable](#) has changed.

The documentation for this class was generated from the following file:

- [Test/TestClass.cs](#)

## Chapter 9

# File Documentation

### 9.1 ahbsd.lib/ApiKey/ApiKeyEventArgs.cs File Reference

#### Classes

- class [ahbsd.lib.ApiKey.ApiKeyEventArgs< T >](#)  
*Specialized generic [EventArgs](#) for API-Keys.*

#### Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.ApiKey](#)

### 9.2 ahbsd.lib/ApiKey/ApiKeyEventHandler.cs File Reference

#### Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.ApiKey](#)

#### Functions

- delegate void [ahbsd.lib.ApiKey.ApiKeyEventHandler< T >](#) (object sender, [ApiKeyEventArgs< T >](#) e)  
*Delegate for events with generic API-Keys.*

### 9.3 ahbsd.lib/ApiKey/ApiKeyHolder.cs File Reference

#### Classes

- class [ahbsd.lib.ApiKey.ApiKeyHolder< T >](#)  
*Class for generic API-Keys.*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.ApiKey](#)

## 9.4 ahbsd.lib/ApiKey/IApiKeyEventArgs.cs File Reference

### Classes

- interface [ahbsd.lib.ApiKey.IApiKeyEventArgs](#)  
*Interface for ApiKeyEventArgs< T>.*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.ApiKey](#)

## 9.5 ahbsd.lib/ChangeEventArgs.cs File Reference

### Classes

- class [ahbsd.lib.ChangeEventArgs< T >](#)  
*Generic [EventArgs](#) for changing values.*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)

### Functions

- delegate void [ahbsd.lib.ChangeEventHandler< T >](#) (object sender, ChangeEventArgs< T > e)  
*A delegate for change events.*

## 9.6 ahbsd.lib/EventArgs.cs File Reference

### Classes

- class [ahbsd.lib.EventArgs< T >](#)  
*Generic [EventArgs](#).*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)

## 9.7 ahbsd.lib/Exceptions/Exception.cs File Reference

### Classes

- class [ahbsd.lib.Exceptions.Exception< T >](#)  
*Class for a generic [Exception](#), which additionally holds a value of T*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.Exceptions](#)

## 9.8 ahbsd.lib/Exceptions/IGenericException.cs File Reference

### Classes

- interface [ahbsd.lib.Exceptions.IGenericException< T >](#)  
*Interface for generic exceptions.*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.Exceptions](#)

## 9.9 ahbsd.lib/IChangeEventArgs.cs File Reference

### Classes

- interface [ahbsd.lib.IChangeEventArgs< T >](#)  
*Interface for generic [EventArgs](#) for changing values.*

## Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)

## 9.10 ahbsd.lib/IEventArgs.cs File Reference

### Classes

- interface [ahbsd.lib.IEventArgs< T >](#)  
*Interface for generic [EventArgs](#).*

### Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)

## 9.11 ahbsd.lib/Tools/ConsolePrintTable.cs File Reference

### Classes

- class [ahbsd.lib.Tools.ConsolePrintTable](#)  
*Static class to print a [DataTable](#) to console.*

### Namespaces

- namespace [ahbsd](#)
- namespace [ahbsd.lib](#)
- namespace [ahbsd.lib.Tools](#)

## 9.12 LICENSE.md File Reference

## 9.13 README.md File Reference

## 9.14 Test/ITestClass.cs File Reference

### Classes

- interface [Test.ITestClass< T, A >](#)  
*An interface for a class to demonstrate [ChangeEventArgs< T >](#) and [ChangeEventHandler< T >](#).*

### Namespaces

- namespace [Test](#)

## 9.15 Test/Program.cs File Reference

### Classes

- class [Test.Program](#)  
*The test program.*

### Namespaces

- namespace [Test](#)

## 9.16 Test/TestClass.cs File Reference

### Classes

- class [Test.TestClass< T, A >](#)  
*A class to demonstrate `ChangeEventArgs<T>` and `ChangeEventHandler<T>`.*

### Namespaces

- namespace [Test](#)

