

# Namespace Rudeus

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ユーティリティクラス

## Interfaces

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ユーティリティクラスのインターフェース

# Class Constants

Namespace: [Rudeus](#)

Assembly: SharedLib.dll

定数を定義するクラス

```
public class Constants
```

Inheritance

[object](#) ← Constants

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#)

## Fields

### ApiCheckStatusPath

APIのパス

```
public static readonly string ApiCheckStatusPath
```

Field Value

[string](#)

### ApiEndpointWithCert

クライアント証明書認証が必要なAPIエンドポイント

```
public static readonly string ApiEndpointWithCert
```

Field Value

[string](#)

## ApiEndpointWithoutCert

クライアント証明書認証が不要なAPIエンドポイント

```
public static readonly string ApiEndpointWithoutCert
```

Field Value

[string](#)

## ApiLoginPath

```
public static readonly string ApiLoginPath
```

Field Value

[string](#)

## ApiRegisterPath

```
public static readonly string ApiRegisterPath
```

Field Value

[string](#)

## ApiSendInstalledAppsPath

```
public static readonly string ApiSendInstalledAppsPath
```

Field Value

[string](#)

## ApiUpdateMetadataPath

```
public static readonly string ApiUpdateMetadataPath
```

Field Value

[string](#)

## ApiUpdatePath

```
public static readonly string ApiUpdatePath
```

Field Value

[string](#)

## AppCallbackUri

カスタムURIスキームで起動する場合の設定

```
public static string AppCallbackUri
```

Field Value

[string](#)

## CallbackPort

SAMLログインのlocalhostコールバックポート

```
public static readonly string CallbackPort
```

Field Value

[string](#)

## DefaultRegistryKey

アプリのデフォルトのレジストリキー

```
public static string DefaultRegistryKey
```

Field Value

[string](#)

## DummyUpdateUrl

```
public static string DummyUpdateUrl
```

Field Value

[string](#)

## DummyVersion

```
public static string DummyVersion
```

Field Value

[string](#)

## ForceUpdateExitCode

アップデートの強制実行時にLauncherに返すエラーコード

```
public static int ForceUpdateExitCode
```

Field Value

[int](#)

## InnoSetupUserDataKey

Inno Setupで設定されたユーザ名とHIU-PXXのデータのキー

```
public static string InnoSetupUserDataKey
```

Field Value

[string](#)

## KyoumuUrl

教務Webシステムのタスクトレイリンク

```
public static readonly string KyoumuUrl
```

Field Value

[string](#)

## LaunchTwiceExitCode

未使用エラーコード

```
public static int LaunchTwiceExitCode
```

Field Value

[int](#)

## Polite3Url

Polite3のタスクトレーリング

```
public static readonly string Polite3Url
```

Field Value

[string](#)

## RegistryDir

アプリのルートレジストリパス

```
public static string RegistryDir
```

Field Value

[string](#)

## RudeusBgDir

```
public static readonly string RudeusBgDir
```

Field Value

[string](#)

## RudeusBgExeName

```
public static readonly string RudeusBgExeName
```

Field Value

[string](#)

## RudeusBgFormDir

```
public static readonly string RudeusBgFormDir
```

Field Value

[string](#)

## RudeusBgFormExeName

```
public static readonly string RudeusBgFormExeName
```

Field Value

[string](#)

## RudeusBgFormLastName

```
public static readonly string RudeusBgFormLastName
```

Field Value

[string](#)

## RudeusBgFormLatestName

```
public static readonly string RudeusBgFormLatestName
```

Field Value

[string](#)

## RudeusBgFormLauncherExePath

```
public static readonly string RudeusBgFormLauncherExePath
```

Field Value

[string](#)

## RudeusBgFormRegKey

RudeusBgFormが使用するレジストリのキー

```
public static readonly string RudeusBgFormRegKey
```

Field Value

[string](#)

## RudeusBgLastName

```
public static readonly string RudeusBgLastName
```

Field Value

[string](#)

## RudeusBgLatestName

```
public static readonly string RudeusBgLatestName
```

Field Value

[string](#)

## RudeusBgLauncherExePath

```
public static readonly string RudeusBgLauncherExePath
```

Field Value

[string](#)

## RudeusBgRegKey

RudeusBgが使用するレジストリのキー

```
public static readonly string RudeusBgRegKey
```

Field Value

[string](#)

## SamlLoginUrl

SAMLログインのエントリーページ

```
public static readonly string SamlLoginUrl
```

Field Value

[string](#)

## WebPortalUrl

Webポータルのタスクトレイリンク

```
public static readonly string WebPortalUrl
```

Field Value

[string](#)

## disableClientCertAuth

クライアント認証を強制しない場合はtrue

```
public static readonly bool disableClientCertAuth
```

Field Value

[bool](#)

# Interface IUtils

Namespace: [Rudeus](#)

Assembly: SharedLib.dll

ユーティリティクラスのインターフェース

```
public interface IUtils
```

## Extension Methods

[AssertEx.IsInstanceOf<TExpected>\(object\)](#) , [AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Methods

### CompareVersionString(string, string, int)

ドット区切り数字列を比較する

```
public static abstract int CompareVersionString(string a, string b, int depth)
```

#### Parameters

a [string](#) ↗

対象文字列A

b [string](#) ↗

対象文字列B

depth [int](#) ↗

比較する列数 (0なら全て)

#### Returns

[int](#) ↗

A-Bの符号 (1, 0, -1)

## ConcatStudentNumberFromMail(string)

メールアドレスから学籍番号を抽出する

```
public static abstract string ConcatStudentNumberFromMail(string mailAddress)
```

Parameters

mailAddress [string](#)

sXXXXXXX@s.do-johodai.ac.jpのメールアドレス

Returns

[string](#)

XXXXXXXの数字部分

## CopyDirectory(string, string, bool)

ディレクトリを再帰的にコピーする

```
public static abstract void CopyDirectory(string sourceDir, string destDir, bool recursive)
```

Parameters

sourceDir [string](#)

destDir [string](#)

recursive [bool](#)

## IsStudentMailAddress(string)

メールアドレスが学生用のものかどうかを判定する

```
public static abstract bool IsStudentMailAddress(string mailAddress)
```

Parameters

mailAddress [string](#)

メールアドレス

Returns

[bool](#)

## ParseArgs(string[])

key=value形式の引数をパースする

```
public static abstract Dictionary<string, string> ParseArgs(string[] args)
```

Parameters

args [string](#)[]

Returns

[Dictionary](#)<[string](#), [string](#)>

## RegisterDeviceAndSetData()

廃止予定 デバイスを登録し、データを設定する

```
public static abstract void RegisterDeviceAndSetData()
```

# Class Utils

Namespace: [Rudeus](#)

Assembly: SharedLib.dll

ユーティリティクラス

```
public class Utils : IUtils
```

Inheritance

[object](#) ← Utils

Implements

[IUtils](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Fields

### KyoumuUrl

```
public static readonly string KyoumuUrl
```

Field Value

[string](#)

## Polite3Url

```
public static readonly string Polite3Url
```

Field Value

[string](#)

## WebPortalUrl

```
public static readonly string WebPortalUrl
```

Field Value

[string](#)

## Properties

### LM

```
public static ILocalMachine LM { get; set; }
```

Property Value

[ILocalMachine](#)

## Methods

### CompareVersionString(string, string, int)

ドット区切り数字列を比較する

```
public static int CompareVersionString(string a, string b, int depth = 0)
```

## Parameters

a [string](#)

対象文字列A

b [string](#)

対象文字列B

depth [int](#)

比較する列数 (0なら全て)

## Returns

[int](#)

A-Bの符号 (1, 0, -1)

## ConcatStudentNumberFromMail(string)

s9999999@s.do-johodai.ac.jp -> 9999999

```
public static string ConcatStudentNumberFromMail(string mailAddress)
```

## Parameters

mailAddress [string](#)

## Returns

[string](#)

## Exceptions

[Exception](#)

## CopyDirectory(string, string, bool)

ディレクトリを再帰的にコピーする

```
public static void CopyDirectory(string sourceDir, string destinationDir, bool recursive)
```

Parameters

sourceDir [string](#)

destinationDir [string](#)

recursive [bool](#)

## IsStudentMailAddress(string)

s9999999@s.do-johodai.ac.jp -> true

```
public static bool IsStudentMailAddress(string mailAddress)
```

Parameters

mailAddress [string](#)

Returns

[bool](#)

## ParseArgs(string[])

key=value形式の引数をパースする

```
public static Dictionary<string, string> ParseArgs(string[] args)
```

Parameters

args [string](#)[]

Returns

[Dictionary](#)<[string](#), [string](#)>

## RegisterDeviceAndSetData()

廃止予定 デバイスを登録し、データを設定する

```
public static void RegisterDeviceAndSetData()
```

# Namespace Rudeus.API

## Classes

### [Exceptions](#)

[Exceptions.AccessTokenUnavailableException](#)

[Exceptions.ServerUnavailableException](#)

[Exceptions.UnexpectedResponseException](#)

[FakeRequestClient](#)

[RemoteAPI](#)

管理サーバとREST APIで通信する、モデルのプロパティを読み取るが書き込みはしない

[RequestClient](#)

## Interfaces

[IRequestClient](#)

# Class Exceptions

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class Exceptions
```

## Inheritance

[object](#) ← Exceptions

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Class

# Exceptions.AccessTokenUnavailableException

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class Exceptions.AccessTokenUnavailableException : Exception, ISerializable
```

## Inheritance

[object](#) ← [Exception](#) ← Exceptions.AccessTokenUnavailableException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) , [Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) ,  
[Exception.GetType\(\)](#) , [Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) ,  
[Exception.HResult](#) , [Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### AccessTokenUnavailableException(string)

```
public AccessTokenUnavailableException(string message)
```

## Parameters

message [string](#)

# Class Exceptions.ServerUnavailableException

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class Exceptions.ServerUnavailableException : Exception, ISerializable
```

## Inheritance

[object](#) ← [Exception](#) ← Exceptions.ServerUnavailableException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) , [Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) ,  
[Exception.GetType\(\)](#) , [Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) ,  
[Exception.HResult](#) , [Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### ServerUnavailableException(string)

```
public ServerUnavailableException(string message)
```

## Parameters

message [string](#)



# Class

# Exceptions.UnexpectedResponseException

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class Exceptions.UnexpectedResponseException : Exception, ISerializable
```

## Inheritance

[object](#) ← [Exception](#) ← Exceptions.UnexpectedResponseException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#) , [Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#) ,  
[Exception.GetType\(\)](#) , [Exception.ToString\(\)](#) , [Exception.Data](#) , [Exception.HelpLink](#) ,  
[Exception.HResult](#) , [Exception.InnerException](#) , [Exception.Message](#) , [Exception.Source](#) ,  
[Exception.StackTrace](#) , [Exception.TargetSite](#) , [Exception.SerializeObjectState](#) ,  
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### UnexpectedResponseException(string)

```
public UnexpectedResponseException(string message)
```

## Parameters

message [string](#)

# Class FakeRequestClient

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class FakeRequestClient : IRequestClient
```

## Inheritance

[object](#) ← FakeRequestClient

## Implements

[IRequestClient](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool> , string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) , [AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### FakeRequestClient()

```
public FakeRequestClient()
```

### FakeRequestClient(bool, bool, bool)

```
public FakeRequestClient(bool raiseUnreachableException, bool raiseUnauthorizedException, bool raiseUnexceptResponseException)
```

## Parameters

`raiseUnreachableException` [bool](#)

`raiseUnauthorizedException` [bool](#)

`raiseUnexceptResponseException` [bool](#)

## Fields

### OKResponseString

`public string` `OKResponseString`

Field Value

[string](#)

### OKWithPushDataResponseString

`public string` `OKWithPushDataResponseString`

Field Value

[string](#)

### RaiseUnauthorizedException

`public bool` `RaiseUnauthorizedException`

Field Value

[bool](#)

## RaiseUnexceptResponseException

```
public bool RaiseUnexceptResponseException
```

Field Value

[bool](#)

## RaiseUnreachableException

```
public bool RaiseUnreachableException
```

Field Value

[bool](#)

## RegisterDeviceResponseString

```
public string RegisterDeviceResponseString
```

Field Value

[string](#)

## Methods

### Request([HttpRequestMessage](#))

```
public HttpResponseMessage Request(HttpRequestMessage message)
```

Parameters

message [HttpRequestMessage](#)

Returns

[HttpResponseMessage](#)

## RequestMethod(HttpRequestMessage)

```
public string RequestMethod(HttpRequestMessage message)
```

Parameters

message [HttpRequestMessage](#)

Returns

[string](#)

# Interface IRequestClient

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public interface IRequestClient
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsNotNullInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotNullInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Methods

### Request(HttpRequestMessage)

HttpResponseMessage **Request**(HttpRequestMessage message)

#### Parameters

message [HttpRequestMessage](#)

#### Returns

[HttpResponseMessage](#)

### RequestString(HttpRequestMessage)

string **RequestString**(HttpRequestMessage message)

#### Parameters

message [HttpRequestMessage](#)

Returns

[string](#)

# Class RemoteAPI

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

管理サーバとREST APIで通信する、モデルのプロパティを読み取るが書き込みはしない

```
public class RemoteAPI
```

## Inheritance

[object](#) ← RemoteAPI

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Fields

### ApiEndpointWithCert

```
public static readonly string ApiEndpointWithCert
```

## Field Value

[string](#)

### ApiEndpointWithoutCert

```
public static readonly string ApiEndpointWithoutCert
```

Field Value

[string](#)

## AppCallbackUri

```
public static string AppCallbackUri
```

Field Value

[string](#)

## SamlLoginUrl

```
public static readonly string SamlLoginUrl
```

Field Value

[string](#)

## Properties

### ApiCheckStatusPath

```
public static string ApiCheckStatusPath { get; }
```

Property Value

[string](#)

### ApiLoginPath

```
public static string ApiLoginPath { get; }
```

Property Value

[string](#)

## ApiRegisterPath

```
public static string ApiRegisterPath { get; }
```

Property Value

[string](#)

## ApiSendInstalledAppsPath

```
public static string ApiSendInstalledAppsPath { get; }
```

Property Value

[string](#)

## ApiUpdateMetadataPath

```
public static string ApiUpdateMetadataPath { get; }
```

Property Value

[string](#)

## ApiUpdatePath

```
public static string ApiUpdatePath { get; }
```

Property Value

[string](#)

## RequestClient

```
public static IRequestClient RequestClient { get; set; }
```

Property Value

[IRequestClient](#)

## Methods

### BuildHttpRequestMessage(string?, string, string, HttpMethod)

```
public static HttpRequestMessage BuildHttpRequestMessage(string? accessToken, string
requestPath, string payload, HttpMethod method)
```

Parameters

accessToken [string](#)

requestPath [string](#)

payload [string](#)

method [HttpMethod](#)

Returns

[HttpRequestMessage](#)

### GetUpdateMetadata(string)

```
public static UpdateMetadataResponse GetUpdateMetadata(string accessToken)
```

Parameters

accessToken [string](#)

Returns

[UpdateMetadataResponse](#)

## IsAccessTokenAvailable(string)

```
public static bool IsAccessTokenAvailable(string accessToken)
```

Parameters

accessToken [string](#)

Returns

[bool](#)

## IsRemoteReachable()

```
public static bool IsRemoteReachable()
```

Returns

[bool](#)

## LoginDevice(string, string)

```
public static LoginResponse LoginDevice(string accessToken, string userId)
```

Parameters

accessToken [string](#)

userId [string](#)

Returns

[LoginResponse](#)

## ReceiveStudentIdAsync()

ログインして紐づけを行ったUserIdを取得 localhostを使うのでWindowsのみ対応している

```
public static Task<string> ReceiveStudentIdAsync()
```

Returns

[Task](#) <[string](#)>

## RegisterDevice(string, string)

デバイスを登録する accesstokenを取得する

```
public static RegisterResponse RegisterDevice(string deviceId, string hostname)
```

Parameters

deviceId [string](#)

hostname [string](#)

Returns

[RegisterResponse](#)

RegisterResponse

## SendInstalledApps(string, List<ApplicationData>)

```
public static BaseResponse SendInstalledApps(string accessToken, List<ApplicationData> apps)
```

### Parameters

accessToken [string](#)

apps [List](#)<ApplicationData>

### Returns

[BaseResponse](#)

## UpdateDevice(string, string?)

デバイスIDとアクセストークンを利用してデバイス情報を更新する

```
public static UpdateResponse UpdateDevice(string accessToken, string? hostname = null)
```

### Parameters

accessToken [string](#)

hostname [string](#)

### Returns

[UpdateResponse](#)

# Class RequestClient

Namespace: [Rudeus.API](#)

Assembly: SharedLib.dll

```
public class RequestClient : IRequestClient
```

## Inheritance

[object](#) ← RequestClient

## Implements

[IRequestClient](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object\)](#) .

# Constructors

## RequestClient(string)

```
public RequestClient(string endpoint)
```

## Parameters

endpoint [string](#)

# Methods

## Request([HttpRequestMessage](#))

```
public HttpResponseMessage Request(HttpRequestMessage message)
```

Parameters

message [HttpRequestMessage](#)

Returns

[HttpResponseMessage](#)

## RequestString([HttpRequestMessage](#))

```
public string RequestString(HttpRequestMessage message)
```

Parameters

message [HttpRequestMessage](#)

Returns

[string](#)

# Namespace Rudeus.API.Request

## Classes

[BaseRequest](#)

[BaseRequestData](#)

[EmptyRequest](#)

[EmptyRequestData](#)

[LoginRequest](#)

[LoginRequestData](#)

[RegisterRequest](#)

[RegisterRequestData](#)

[SendInstalledAppsAppData](#)

[SendInstalledAppsRequest](#)

[SendInstalledAppsrequestData](#)

[UpdateRequest](#)

[UpdateRequestData](#)

## Interfaces

[IRequest](#)

# Class BaseRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class BaseRequest : IRequest
```

## Inheritance

[object](#) ← BaseRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object\)](#)

# Properties

## request\_data

```
[JsonPropertyName("request_data")]
public BaseRequestData? request_data { get; set; }
```

## Property Value

[BaseRequestData](#)

## type

```
[JsonPropertyName("type")]
public string? type { get; set; }
```

Property Value

[string](#) ↗

# Class BaserequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class BaserequestData
```

## Inheritance

[object](#) ← BaserequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Class EmptyRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class EmptyRequest : IRequest
```

## Inheritance

[object](#) ← EmptyRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### EmptyRequest()

```
public EmptyRequest()
```

## Properties

request\_data

```
[JsonPropertyName("request_data")]
public EmptyrequestData request_data { get; set; }
```

Property Value

[EmptyrequestData](#)

type

```
[JsonPropertyName("type")]
public string type { get; }
```

Property Value

[string](#) ↗

# Class EmptyrequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class EmptyrequestData
```

## Inheritance

[object](#) ← EmptyrequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Constructors

## EmptyrequestData()

```
public EmptyrequestData()
```

# Interface IRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public interface IRequest
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Properties

type

```
string? type { get; }
```

Property Value

[string](#) ↗

# Class LoginRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class LoginRequest : IRequest
```

## Inheritance

[object](#) ← LoginRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) , [AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### LoginRequest(string)

```
public LoginRequest(string username)
```

## Parameters

username [string](#)

## Properties

## request\_data

```
[JsonPropertyName("request_data")]
public LoginRequestData request_data { get; set; }
```

### Property Value

[LoginRequestData](#)

## type

```
[JsonPropertyName("type")]
public string type { get; set; }
```

### Property Value

[string](#) ↗

# Class LoginRequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class LoginRequestData
```

## Inheritance

[object](#) ← LoginRequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### LoginRequestData(string)

```
public LoginRequestData(string userId)
```

## Parameters

userId [string](#)

## Properties

user\_id

```
[JsonPropertyName("user_id")]
public string user_id { get; set; }
```

Property Value

string ↗

# Class RegisterRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class RegisterRequest : IRequest
```

## Inheritance

[object](#) ← RegisterRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.Is<T>\(T, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) , [AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Constructors

## RegisterRequest(string, string, string)

```
public RegisterRequest(string deviceId, string hostname, string manageId)
```

## Parameters

deviceId [string](#)

hostname [string](#)

manageId [string](#)

# Properties

## request\_data

```
[JsonPropertyName("request_data")]
public RegisterrequestData request_data { get; set; }
```

## Property Value

[RegisterrequestData](#)

## type

```
[JsonPropertyName("type")]
public string type { get; set; }
```

## Property Value

[string](#) ↗

# Class RegisterrequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class RegisterrequestData
```

## Inheritance

[object](#) ← RegisterrequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### RegisterrequestData(string, string, string)

```
public RegisterrequestData(string deviceId, string hostname, string manageId)
```

## Parameters

deviceId [string](#)

hostname [string](#)

manageId [string](#)

## Properties

## device\_id

```
[JsonPropertyName("device_id")]
public string? device_id { get; set; }
```

### Property Value

[string](#) ↗

## hostname

```
[JsonPropertyName("hostname")]
public string? hostname { get; set; }
```

### Property Value

[string](#) ↗

## manage\_id

```
[JsonPropertyName("manage_id")]
public string? manage_id { get; set; }
```

### Property Value

[string](#) ↗

## product\_name

```
[JsonPropertyName("product_name")]
public string? product_name { get; set; }
```

### Property Value

[string](#) ↗



# Class SendInstalledAppsAppData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class SendInstalledAppsAppData
```

## Inheritance

[object](#) ← SendInstalledAppsAppData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### SendInstalledAppsAppData(string, string)

```
public SendInstalledAppsAppData(string name, string version)
```

## Parameters

name [string](#)

version [string](#)

## Properties

## name

```
[JsonPropertyName("name")]
public string name { get; set; }
```

### Property Value

[string](#) ↗

## version

```
[JsonPropertyName("version")]
public string version { get; set; }
```

### Property Value

[string](#) ↗

# Class SendInstalledAppsRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class SendInstalledAppsRequest : IRequest
```

## Inheritance

[object](#) ← SendInstalledAppsRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object\)](#)

## Constructors

### SendInstalledAppsRequest(List<ApplicationData>)

```
public SendInstalledAppsRequest(List<ApplicationData> apps)
```

## Parameters

apps [List](#)<ApplicationData>

## Properties

## request\_data

```
[JsonPropertyName("request_data")]
public SendInstalledAppsrequestData request_data { get; set; }
```

### Property Value

[SendInstalledAppsrequestData](#)

## type

```
[JsonPropertyName("type")]
public string type { get; set; }
```

### Property Value

[string](#) ↗

# Class SendInstalledAppsrequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class SendInstalledAppsrequestData
```

## Inheritance

[object](#) ← SendInstalledAppsrequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

SendInstalledAppsrequestData(List<ApplicationData>)

```
public SendInstalledAppsrequestData(List<ApplicationData> apps)
```

## Parameters

apps [List](#) <ApplicationData>

## Properties

apps

```
[JsonPropertyName("apps")]
public List<SendInstalledAppsAppData> apps { get; set; }
```

Property Value

[List](#) <[SendInstalledAppsAppData](#)>

# Class UpdateRequest

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class UpdateRequest : IRequest
```

## Inheritance

[object](#) ← UpdateRequest

## Implements

[IRequest](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object\)](#) , [AssertEx.IsStructuralEqual\(object, object\)](#) .

# Constructors

## UpdateRequest()

```
public UpdateRequest()
```

## UpdateRequest(string?)

```
public UpdateRequest(string? hostname = null)
```

## Parameters

hostname [string](#)

## Properties

### request\_data

```
[JsonPropertyName("request_data")]
public UpdaterequestData request_data { get; set; }
```

Property Value

[UpdaterequestData](#)

### type

```
[JsonPropertyName("type")]
public string type { get; set; }
```

Property Value

[string](#)

# Class UpdaterequestData

Namespace: [Rudeus.API.Request](#)

Assembly: SharedLib.dll

```
public class UpdaterequestData
```

## Inheritance

[object](#) ← UpdaterequestData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### UpdaterequestData()

```
public UpdaterequestData()
```

### UpdaterequestData(string?)

```
public UpdaterequestData(string? hostname)
```

## Parameters

hostname [string](#)

# Properties

## hostname

```
[JsonPropertyName("hostname")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string? hostname { get; set; }
```

## Property Value

[string](#) ↗

## spec

```
[JsonPropertyName("spec")]
[JsonIgnore(Condition = JsonIgnoreCondition.WhenWritingNull)]
public string? spec { get; set; }
```

## Property Value

[string](#) ↗

# Namespace Rudeus.API.Response

## Classes

[BaseResponse](#)

[LoginResponse](#)

[LoginResponseData](#)

[PushResponseData](#)

[RegisterResponse](#)

[RegisterResponseData](#)

[UpdateMetadataResponse](#)

[UpdateMetadataResponseData](#)

[UpdateResponse](#)

[UpdateResponseData](#)

# Class BaseResponse

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class BaseResponse
```

## Inheritance

[object](#) ← BaseResponse

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Constructors

## BaseResponse()

```
public BaseResponse()
```

# Properties

## response\_data

```
[JsonPropertyName("response_data")]
public BaseResponse? response_data { get; set; }
```

Property Value

[BaseResponse](#)

status

```
[JsonPropertyName("status")]
public string status { get; set; }
```

Property Value

[string](#) ↗

# Class LoginResponse

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class LoginResponse
```

## Inheritance

[object](#) ← LoginResponse

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## response\_data

```
[JsonPropertyName("response_data")]
public LoginResponseData response_data { get; set; }
```

## Property Value

[LoginResponseData](#)

## status

```
[JsonPropertyName("status")]
public string status { get; set; }
```

Property Value

string ↗

# Class LoginResponseData

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class LoginResponseData
```

## Inheritance

[object](#) ← LoginResponseData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## username

```
[JsonPropertyName("username")]
public string? username { get; set; }
```

## Property Value

[string](#)

# Class PushResponseData

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class PushResponseData
```

## Inheritance

[object](#) ← PushResponseData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## id

```
[JsonPropertyName("id")]
public string? id { get; set; }
```

## Property Value

[string](#)

## payload

```
[JsonPropertyName("payload")]
public string? payload { get; set; }
```

Property Value

[string](#) ↗

type

```
[JsonPropertyName("type")]
public string? type { get; set; }
```

Property Value

[string](#) ↗

# Class RegisterResponse

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class RegisterResponse
```

## Inheritance

[object](#) ← RegisterResponse

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Properties

### response\_data

```
[JsonPropertyName("response_data")]
public RegisterResponseData response_data { get; set; }
```

### Property Value

[RegisterResponseData](#)

### status

```
[JsonPropertyName("status")]
public string status { get; set; }
```

Property Value

string ↗

# Class RegisterResponseData

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class RegisterResponseData
```

## Inheritance

[object](#) ← RegisterResponseData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## access\_token

```
[JsonPropertyName("access_token")]
public string? access_token { get; set; }
```

## Property Value

[string](#)

# Class UpdateMetadataResponse

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class UpdateMetadataResponse
```

## Inheritance

[object](#) ← UpdateMetadataResponse

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### UpdateMetadataResponse()

```
public UpdateMetadataResponse()
```

### UpdateMetadataResponse(string, string)

```
public UpdateMetadataResponse(string latestVersion, string url)
```

## Parameters

latestVersion [string](#)

url [string](#)

## Properties

### request\_data

```
[JsonPropertyName("request_data")]
public UpdateMetadataresponseData request_data { get; set; }
```

#### Property Value

[UpdateMetadataresponseData](#)

### status

```
[JsonPropertyName("status")]
public string status { get; set; }
```

#### Property Value

[string](#)

# Class UpdateMetadataresponseData

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class UpdateMetadataresponseData
```

## Inheritance

[object](#) ← UpdateMetadataresponseData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### UpdateMetadataresponseData()

```
public UpdateMetadataresponseData()
```

### UpdateMetadataresponseData(string, string)

```
public UpdateMetadataresponseData(string stable_version, string stable_zip_url)
```

## Parameters

stable\_version [string](#)

`stable_zip_url` [string](#)

## Properties

### stable\_version

```
[JsonPropertyName("stable_version")]
public string stable_version { get; set; }
```

Property Value

[string](#)

### stable\_zip\_url

```
[JsonPropertyName("stable_zip_url")]
public string stable_zip_url { get; set; }
```

Property Value

[string](#)

# Class UpdateResponse

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class UpdateResponse
```

## Inheritance

[object](#) ← UpdateResponse

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## push\_data

```
[JsonPropertyName("push_data")]
public PushResponseData[] push_data { get; set; }
```

## Property Value

[PushResponseData\[\]](#)

## response\_data

```
[JsonPropertyName("response_data")]
public UpdateResponseData response_data { get; set; }
```

Property Value

[UpdateResponseData](#)

status

```
[JsonPropertyName("status")]
public string status { get; set; }
```

Property Value

[string](#) ↗

# Class UpdateResponseData

Namespace: [Rudeus.API.Response](#)

Assembly: SharedLib.dll

```
public class UpdateresponseData
```

## Inheritance

[object](#) ← UpdateresponseData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## username

```
[JsonPropertyName("username")]
public string? username { get; set; }
```

## Property Value

[string](#)

# Namespace Rudeus.API.Test

## Classes

[RemoteAPITests](#)

# Class RemoteAPITests

Namespace: [Rudeus.API.Test](#)

Assembly: Test.dll

```
public class RemoteAPITests
```

## Inheritance

[object](#) ← RemoteAPITests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Methods

### TestBuildHttpRequestMessage()

```
[Fact]  
public void TestBuildHttpRequestMessage()
```

### TestLoginDevice()

```
[Fact]  
public void TestLoginDevice()
```

## TestRegisterDevice()

```
[Fact]  
public void TestRegisterDevice()
```

## TestRegisterDeviceException()

```
[Fact]  
public void TestRegisterDeviceException()
```

## TestSendInstalledApps()

```
[Fact]  
public void TestSendInstalledApps()
```

## TestUpdateDevice()

```
[Fact]  
public void TestUpdateDevice()
```

# Namespace Rudeus.Application

## Classes

[TaskTrayForm](#)

# Class TaskTrayForm

Namespace: [Rudeus.Application](#)

Assembly: Application.dll

```
public class TaskTrayForm : Form, IDropTarget, ISynchronizeInvoke, IWin32Window,  
IBindableComponent, IComponent, IDisposable, IContainerControl
```

## Inheritance

[object](#) ← [MarshalByRefObject](#) ← [Component](#) ← [Control](#) ← [ScrollableControl](#) ←  
[ContainerControl](#) ← [Form](#) ← TaskTrayForm

## Implements

[IDropTarget](#), [ISynchronizeInvoke](#), [IWin32Window](#), [IBindableComponent](#), [IComponent](#),  
[IDisposable](#), [IContainerControl](#)

## Inherited Members

[Form.SetVisibleCore\(bool\)](#), [Form.Activate\(\)](#), [Form.ActivateMdiChild\(Form\)](#),  
[Form.AddOwnedForm\(Form\)](#), [Form.AdjustFormScrollbars\(bool\)](#), [Form.Close\(\)](#),  
[Form.CreateAccessibilityInstance\(\)](#), [Form.CreateControlsInstance\(\)](#), [Form.CreateHandle\(\)](#),  
[Form.DefWndProc\(ref Message\)](#), [Form.ProcessMnemonic\(char\)](#), [Form.CenterToParent\(\)](#),  
[Form.CenterToScreen\(\)](#), [Form.LayoutMdi\(MdiLayout\)](#), [Form.OnActivated\(EventArgs\)](#),  
[Form.OnBackgroundImageChanged\(EventArgs\)](#),  
[Form.OnBackgroundImageLayoutChanged\(EventArgs\)](#), [Form.OnClosing\(CancelEventArgs\)](#),  
[Form.OnClosed\(EventArgs\)](#), [Form.OnFormClosing\(FormClosingEventArgs\)](#),  
[Form.OnFormClosed\(FormClosedEventArgs\)](#), [Form.OnCreateControl\(\)](#),  
[Form.OnDeactivate\(EventArgs\)](#), [Form.OnEnabledChanged\(EventArgs\)](#), [Form.OnEnter\(EventArgs\)](#),  
[Form.OnFontChanged\(EventArgs\)](#), [Form.OnGotFocus\(EventArgs\)](#),  
[Form.OnHandleCreated\(EventArgs\)](#), [Form.OnHandleDestroyed\(EventArgs\)](#),  
[Form.OnHelpButtonClicked\(CancelEventArgs\)](#), [Form.OnLayout\(LayoutEventArgs\)](#),  
[Form.OnLoad\(EventArgs\)](#), [Form.OnMaximizedBoundsChanged\(EventArgs\)](#),  
[Form.OnMaximumSizeChanged\(EventArgs\)](#), [Form.OnMinimumSizeChanged\(EventArgs\)](#),  
[Form.OnInputLanguageChanged\(InputLanguageChangedEventArgs\)](#),  
[Form.OnInputLanguageChanging\(InputLanguageChangingEventArgs\)](#),  
[Form.OnVisibleChanged\(EventArgs\)](#), [Form.OnMdiChildActivate\(EventArgs\)](#),  
[Form.OnMenuStart\(EventArgs\)](#), [Form.OnMenuComplete\(EventArgs\)](#),  
[Form.OnPaint\(PaintEventArgs\)](#), [Form.OnResize\(EventArgs\)](#),  
[Form.OnDpiChanged\(DpiChangedEventArgs\)](#), [Form.OnGetDpiScaledSize\(int, int, ref Size\)](#),  
[Form.OnRightToLeftLayoutChanged\(EventArgs\)](#), [Form.OnShown\(EventArgs\)](#),

[Form.OnTextChanged\(EventArgs\)](#) , [Form.ProcessCmdKey\(ref Message, Keys\)](#) ,  
[Form.ProcessDialogKey\(Keys\)](#) , [Form.ProcessDialogChar\(char\)](#) ,  
[Form.ProcessKeyPreview\(ref Message\)](#) , [Form.ProcessTabKey\(bool\)](#) ,  
[Form.RemoveOwnedForm\(Form\)](#) , [Form.Select\(bool, bool\)](#) ,  
[Form.ScaleMinAxisSize\(float, float, bool\)](#) , [Form.GetScaledBounds\(Rectangle, SizeF, BoundsSpecified\)](#) ,  
[Form.ScaleControl\(SizeF, BoundsSpecified\)](#) , [Form.SetBoundsCore\(int, int, int, int, BoundsSpecified\)](#) ,  
[Form.SetClientSizeCore\(int, int\)](#) , [Form.SetDesktopBounds\(int, int, int, int\)](#) ,  
[Form.SetDesktopLocation\(int, int\)](#) , [Form.Show\(IWin32Window\)](#) , [Form.ShowDialog\(\)](#) ,  
[Form.ShowDialog\(IWin32Window\)](#) , [Form.ToString\(\)](#) , [Form.UpdateDefaultButton\(\)](#) ,  
[Form.OnResizeBegin\(EventArgs\)](#) , [Form.OnResizeEnd\(EventArgs\)](#) ,  
[Form.OnStyleChanged\(EventArgs\)](#) , [Form.ValidateChildren\(\)](#) ,  
[Form.ValidateChildren\(ValidationConstraints\)](#) , [Form.WndProc\(ref Message\)](#) , [Form.AcceptButton](#) ,  
[Form.ActiveForm](#) , [Form.ActiveMdiChild](#) , [Form.AllowTransparency](#) , [Form.AutoScroll](#) ,  
[Form.AutoSize](#) , [Form.AutoSizeMode](#) , [Form.AutoValidate](#) , [Form.BackColor](#) ,  
[Form.FormBorderStyle](#) , [Form.CancelButton](#) , [Form.ClientSize](#) , [Form.ControlBox](#) ,  
[Form.CreateParams](#) , [Form.DefaultImeMode](#) , [Form.DefaultSize](#) , [Form.DesktopBounds](#) ,  
[Form.DesktopLocation](#) , [Form.DialogResult](#) , [Form.HelpButton](#) , [Form.Icon](#) , [Form.IsMdiChild](#) ,  
[Form.IsMdiContainer](#) , [Form.IsRestrictedWindow](#) , [Form.KeyPreview](#) , [Form.Location](#) ,  
[Form.MaximizedBounds](#) , [Form.MaximumSize](#) , [Form.MainMenuStrip](#) , [Form.MinimumSize](#) ,  
[Form.MaximizeBox](#) , [Form.MdiChildren](#) , [Form.MdiChildrenMinimizedAnchorBottom](#) ,  
[Form.MdiParent](#) , [Form.MinimizeBox](#) , [Form.Modal](#) , [Form.Opacity](#) , [Form.OwnedForms](#) ,  
[Form.Owner](#) , [Form.RestoreBounds](#) , [Form.RightToLeftLayout](#) , [Form.ShowInTaskbar](#) ,  
[Form.ShowIcon](#) , [Form.ShowWithoutActivation](#) , [Form.Size](#) , [Form.SizeGripStyle](#) ,  
[Form.StartPosition](#) , [Form.Text](#) , [Form.TopLevel](#) , [Form.TopMost](#) , [Form.TransparencyKey](#) ,  
[Form.WindowState](#) , [Form.AutoSizeChanged](#) , [Form.AutoValidateChanged](#) ,  
[Form.HelpButtonClicked](#) , [Form.MaximizedBoundsChanged](#) , [Form.MaximumSizeChanged](#) ,  
[Form.MinimumSizeChanged](#) , [Form.Activated](#) , [Form.Deactivate](#) , [Form.FormClosing](#) ,  
[Form.FormClosed](#) , [Form.Load](#) , [Form.MdiChildActivate](#) , [Form.MenuComplete](#) ,  
[Form.MenuStart](#) , [Form.InputLanguageChanged](#) , [Form.InputLanguageChanging](#) ,  
[Form.RightToLeftLayoutChanged](#) , [Form.Shown](#) , [Form.DpiChanged](#) , [Form.ResizeBegin](#) ,  
[Form.ResizeEnd](#) , [ContainerControl.OnAutoValidateChanged\(EventArgs\)](#) ,  
[ContainerControl.OnMove\(EventArgs\)](#) , [ContainerControl.OnParentChanged\(EventArgs\)](#) ,  
[ContainerControl.PerformLayout\(\)](#) , [ContainerControl.RescaleConstantsForDpi\(int, int\)](#) ,  
[ContainerControl.Validate\(\)](#) , [ContainerControl.Validate\(bool\)](#) ,  
[ContainerControl.AutoScaleDimensions](#) , [ContainerControl.AutoScaleFactor](#) ,  
[ContainerControl.AutoScaleMode](#) , [ContainerControl.BindingContext](#) ,  
[ContainerControl.CanEnableIme](#) , [ContainerControl.ActiveControl](#) ,  
[ContainerControl.CurrentAutoSizeDimensions](#) , [ContainerControl.ParentForm](#) ,  
[ScrollableControl.ScrollStateAutoScrolling](#) , [ScrollableControl.ScrollStateHScrollVisible](#) ,  
[ScrollableControl.ScrollStateVScrollVisible](#) , [ScrollableControl.ScrollStateUserHasScrolled](#) ,

[ScrollableControl.ScrollStateFullDrag](#) , [ScrollableControl.GetScrollState\(int\)](#) ,  
[ScrollableControl.OnMouseWheel\(MouseEventArgs\)](#) ,  
[ScrollableControl.OnRightToLeftChanged\(EventArgs\)](#) ,  
[ScrollableControl.OnPaintBackground\(PaintEventArgs\)](#) ,  
[ScrollableControl.OnPaddingChanged\(EventArgs\)](#) , [ScrollableControl.SetDisplayRectLocation\(int, int\)](#) ,  
[ScrollableControl.ScrollControlIntoView\(Control\)](#) , [ScrollableControl.ScrollToControl\(Control\)](#) ,  
[ScrollableControl.OnScroll\(ScrollEventArgs\)](#) , [ScrollableControl.SetAutoScrollMargin\(int, int\)](#) ,  
[ScrollableControl.SetScrollState\(int, bool\)](#) , [ScrollableControl.AutoScrollMargin](#) ,  
[ScrollableControl.AutoScrollPosition](#) , [ScrollableControl.AutoScrollMinSize](#) ,  
[ScrollableControl.DisplayRectangle](#) , [ScrollableControl.HScroll](#) , [ScrollableControl.HorizontalScroll](#) ,  
[ScrollableControl.VScroll](#) , [ScrollableControl.VerticalScroll](#) , [ScrollableControl.Scroll](#) ,  
[Control.GetAccessibilityObjectById\(int\)](#) , [Control.SetAutoSizeMode\(AutoSizeMode\)](#) ,  
[Control.GetAutoSizeMode\(\)](#) , [Control.GetPreferredSize\(Size\)](#) ,  
[Control.AccessibilityNotifyClients\(AccessibleEvents, int\)](#) ,  
[Control.AccessibilityNotifyClients\(AccessibleEvents, int, int\)](#) , [Control.BeginInvoke\(Delegate\)](#) ,  
[Control.BeginInvoke\(Action\)](#) , [Control.BeginInvoke\(Delegate, params object\[\]\)](#) ,  
[Control.BringToFront\(\)](#) , [Control.Contains\(Control\)](#) , [Control.CreateGraphics\(\)](#) ,  
[Control.CreateControl\(\)](#) , [Control.DestroyHandle\(\)](#) , [Control.DoDragDrop\(object, DragDropEffects\)](#) ,  
[Control.DoDragDrop\(object, DragDropEffects, Bitmap, Point, bool\)](#) ,  
[Control.DrawToBitmap\(Bitmap, Rectangle\)](#) , [Control.EndInvoke\(IAsyncResult\)](#) , [Control.FindForm\(\)](#) ,  
[Control.GetTopLevel\(\)](#) , [Control.RaiseKeyEvent\(object, KeyEventArgs\)](#) ,  
[Control.RaiseMouseEvent\(object, MouseEventArgs\)](#) , [Control.Focus\(\)](#) ,  
[Control.FromChildHandle\(nint\)](#) , [Control.FromHandle\(nint\)](#) ,  
[Control.GetChildAtPoint\(Point, GetChildAtPointSkip\)](#) , [Control.GetChildAtPoint\(Point\)](#) ,  
[Control.GetContainerControl\(\)](#) , [Control.GetNextControl\(Control, bool\)](#) ,  
[Control.GetStyle\(ControlStyles\)](#) , [Control.Hide\(\)](#) , [Control.InitLayout\(\)](#) , [Control.Invalidate\(Region\)](#) ,  
[Control.Invalidate\(Region, bool\)](#) , [Control.Invalidate\(\)](#) , [Control.Invalidate\(bool\)](#) ,  
[Control.Invalidate\(Rectangle\)](#) , [Control.Invalidate\(Rectangle, bool\)](#) , [Control.Invoke\(Action\)](#) ,  
[Control.Invoke\(Delegate\)](#) , [Control.Invoke\(Delegate, params object\[\]\)](#) ,  
[Control.Invoke<T>\(Func<T>\)](#) , [Control.InvokePaint\(Control, PaintEventArgs\)](#) ,  
[Control.InvokePaintBackground\(Control, PaintEventArgs\)](#) , [Control.IsKeyLocked\(Keys\)](#) ,  
[Control.IsInputChar\(char\)](#) , [Control.IsInputKey\(Keys\)](#) , [Control.IsMnemonic\(char, string\)](#) ,  
[Control.LogicalToDeviceUnits\(int\)](#) , [Control.LogicalToDeviceUnits\(Size\)](#) ,  
[Control.ScaleBitmapLogicalToDevice\(ref Bitmap\)](#) , [Control.NotifyInvalidate\(Rectangle\)](#) ,  
[Control.InvokeOnClick\(Control, EventArgs\)](#) , [Control.OnAutoSizeChanged\(EventArgs\)](#) ,  
[Control.OnBackColorChanged\(EventArgs\)](#) , [Control.OnBindingContextChanged\(EventArgs\)](#) ,  
[Control.OnCausesValidationChanged\(EventArgs\)](#) , [Control.OnContextMenuStripChanged\(EventArgs\)](#) ,  
[Control.OnCursorChanged\(EventArgs\)](#) , [Control.OnDataContextChanged\(EventArgs\)](#) ,  
[Control.OnDockChanged\(EventArgs\)](#) , [Control.OnForeColorChanged\(EventArgs\)](#) ,  
[Control.OnNotifyMessage\(Message\)](#) , [Control.OnParentBackColorChanged\(EventArgs\)](#) ,

[Control.OnParentBackgroundImageChanged\(EventArgs\)](#) ,  
[Control.OnParentBindingContextChanged\(EventArgs\)](#) , [Control.OnParentCursorChanged\(EventArgs\)](#) ,  
[Control.OnParentDataContextChanged\(EventArgs\)](#) , [Control.OnParentEnabledChanged\(EventArgs\)](#) ,  
[Control.OnParentFontChanged\(EventArgs\)](#) , [Control.OnParentForeColorChanged\(EventArgs\)](#) ,  
[Control.OnParentRightToLeftChanged\(EventArgs\)](#) , [Control.OnParentVisibleChanged\(EventArgs\)](#) ,  
[Control.OnPrint\(PaintEventArgs\)](#) , [Control.OnTabIndexChanged\(EventArgs\)](#) ,  
[Control.OnTabStopChanged\(EventArgs\)](#) , [Control.OnClick\(EventArgs\)](#) ,  
[Control.OnClientSizeChanged\(EventArgs\)](#) , [Control.OnControlAdded\(ControlEventArgs\)](#) ,  
[Control.OnControlRemoved\(ControlEventArgs\)](#) , [Control.OnLocationChanged\(EventArgs\)](#) ,  
[Control.OnDoubleClick\(EventArgs\)](#) , [Control.OnDragEnter\(DragEventArgs\)](#) ,  
[Control.OnDragOver\(DragEventArgs\)](#) , [Control.OnDragLeave\(EventArgs\)](#) ,  
[Control.OnDragDrop\(DragEventArgs\)](#) , [Control.OnGiveFeedback\(GiveFeedbackEventArgs\)](#) ,  
[Control.InvokeGotFocus\(Control, EventArgs\)](#) , [Control.OnHelpRequested\(HelpEventArgs\)](#) ,  
[Control.OnInvalidate\(InvalidEventArgs\)](#) , [Control.OnKeyDown\(KeyboardEventArgs\)](#) ,  
[Control.OnKeyPress\(KeyPressEventArgs\)](#) , [Control.OnKeyUp\(KeyboardEventArgs\)](#) ,  
[Control.OnLeave\(EventArgs\)](#) , [Control.InvokeLostFocus\(Control, EventArgs\)](#) ,  
[Control.OnLostFocus\(EventArgs\)](#) , [Control.OnMarginChanged\(EventArgs\)](#) ,  
[Control.OnMouseDoubleClick\(MouseEventArgs\)](#) , [Control.OnMouseClick\(MouseEventArgs\)](#) ,  
[Control.OnMouseCaptureChanged\(EventArgs\)](#) , [Control.OnMouseDown\(MouseEventArgs\)](#) ,  
[Control.OnMouseEnter\(EventArgs\)](#) , [Control.OnMouseLeave\(EventArgs\)](#) ,  
[Control.OnDpiChangedBeforeParent\(EventArgs\)](#) , [Control.OnDpiChangedAfterParent\(EventArgs\)](#) ,  
[Control.OnMouseHover\(EventArgs\)](#) , [Control.OnMouseMove\(MouseEventArgs\)](#) ,  
[Control.OnMouseUp\(MouseEventArgs\)](#) ,  
[Control.OnQueryContinueDrag\(QueryContinueDragEventArgs\)](#) ,  
[Control.OnRegionChanged\(EventArgs\)](#) , [Control.OnPreviewKeyDown\(PreviewKeyDownEventArgs\)](#) ,  
[Control.OnSizeChanged\(EventArgs\)](#) , [Control.OnChangeUICues\(UICuesEventArgs\)](#) ,  
[Control.OnSystemColorsChanged\(EventArgs\)](#) , [Control.OnValidating\(CancelEventArgs\)](#) ,  
[Control.OnValidated\(EventArgs\)](#) , [Control.PerformLayout\(\)](#) , [Control.PerformLayout\(Control, string\)](#) ,  
[Control.PointToClient\(Point\)](#) , [Control.PointToScreen\(Point\)](#) ,  
[Control.PreProcessMessage\(ref Message\)](#) , [Control.PreProcessControlMessage\(ref Message\)](#) ,  
[Control.ProcessKeyEventArgs\(ref Message\)](#) , [Control.ProcessKeyMessage\(ref Message\)](#) ,  
[Control.RaiseDragEvent\(object, DragEventArgs\)](#) , [Control.RaisePaintEvent\(object, PaintEventArgs\)](#) ,  
[Control.RecreateHandle\(\)](#) , [Control.RectangleToClient\(Rectangle\)](#) ,  
[Control.RectangleToScreen\(Rectangle\)](#) , [Control.ReflectMessage\(nint, ref Message\)](#) ,  
[Control.Refresh\(\)](#) , [Control.ResetMouseEventArgs\(\)](#) , [Control.ResetText\(\)](#) , [Control.ResumeLayout\(\)](#) ,  
[Control.ResumeLayout\(bool\)](#) , [Control.Scale\(SizeF\)](#) , [Control.Select\(\)](#) ,  
[Control.SelectNextControl\(Control, bool, bool, bool, bool\)](#) , [Control.SendToBack\(\)](#) ,  
[Control.SetBounds\(int, int, int, int\)](#) , [Control.SetBounds\(int, int, int, int, BoundsSpecified\)](#) ,  
[Control.SizeFromClientSize\(Size\)](#) , [Control.SetStyle\(ControlStyles, bool\)](#) , [Control.SetTopLevel\(bool\)](#) ,  
[Control.RtlTranslateAlignment\(HorizontalAlignment\)](#) ,

[Control.RtlTranslateAlignment\(LeftRightAlignment\)](#) ,  
[Control.RtlTranslateAlignment\(ContentAlignment\)](#) ,  
[Control.RtlTranslateHorizontal\(HorizontalAlignment\)](#) ,  
[Control.RtlTranslateLeftRight\(LeftRightAlignment\)](#) , [Control.RtlTranslateContent\(ContentAlignment\)](#) ,  
[Control.Show\(\)](#) , [Control.SuspendLayout\(\)](#) , [Control.Update\(\)](#) , [Control.UpdateBounds\(\)](#) ,  
[Control.UpdateBounds\(int, int, int, int\)](#) , [Control.UpdateBounds\(int, int, int, int, int, int\)](#) ,  
[Control.UpdateZOrder\(\)](#) , [Control.UpdateStyles\(\)](#) , [Control.OnImeModeChanged\(EventArgs\)](#) ,  
[Control.AccessibilityObject](#) , [Control.AccessibleDefaultActionDescription](#) ,  
[Control.AccessibleDescription](#) , [Control.AccessibleName](#) , [Control.AccessibleRole](#) ,  
[Control.AllowDrop](#) , [Control.Anchor](#) , [Control.AutoScrollOffset](#) , [Control.LayoutEngine](#) ,  
[Control.DataContext](#) , [Control.BackgroundImage](#) , [Control.BackgroundImageLayout](#) ,  
[Control.Bottom](#) , [Control.Bounds](#) , [Control.CanFocus](#) , [Control.CanRaiseEvents](#) ,  
[Control.CanSelect](#) , [Control.Capture](#) , [Control.CausesValidation](#) ,  
[Control.CheckForIllegalCrossThreadCalls](#) , [Control.ClientRectangle](#) , [Control.CompanyName](#) ,  
[Control.ContainsFocus](#) , [Control.ContextMenuStrip](#) , [Control.Controls](#) , [Control.Created](#) ,  
[Control.Cursor](#) , [Control.DataBindings](#) , [Control.DefaultBackColor](#) , [Control.DefaultCursor](#) ,  
[Control.DefaultFont](#) , [Control.DefaultForeColor](#) , [Control.DefaultMargin](#) ,  
[Control.DefaultMaximumSize](#) , [Control.DefaultMinimumSize](#) , [Control.DefaultPadding](#) ,  
[Control.DeviceDpi](#) , [Control.IsDisposed](#) , [Control.Disposing](#) , [Control.Dock](#) ,  
[Control.DoubleBuffered](#) , [Control.Enabled](#) , [Control.Focused](#) , [Control.Font](#) , [Control.FontHeight](#) ,  
[Control.ForeColor](#) , [Control.Handle](#) , [Control.HasChildren](#) , [Control.Height](#) ,  
[Control.IsHandleCreated](#) , [Control.InvokeRequired](#) , [Control.Accessible](#) ,  
[Control.IsAncestorSiteInDesignMode](#) , [Control.IsMirrored](#) , [Control.Left](#) , [Control.Margin](#) ,  
[Control.ModifierKeys](#) , [Control.MouseButtons](#) , [Control.MousePosition](#) , [Control.Name](#) ,  
[Control.Parent](#) , [Control.ProductName](#) , [Control.ProductVersion](#) , [Control.RecreatingHandle](#) ,  
[Control.Region](#) , [Control.RenderRightToLeft](#) , [Control.ResizeRedraw](#) , [Control.Right](#) ,  
[Control.RightToLeft](#) , [Control.ScaleChildren](#) , [Control.Site](#) , [Control.TabIndex](#) , [Control.TabStop](#) ,  
[Control.Tag](#) , [Control.Top](#) , [Control.TopLevelControl](#) , [Control.ShowKeyboardCues](#) ,  
[Control.ShowFocusCues](#) , [Control.UseWaitCursor](#) , [Control.Visible](#) , [Control.Width](#) ,  
[Control.PreferredSize](#) , [Control.Padding](#) , [Control.ImeMode](#) , [Control.ImeModeBase](#) ,  
[Control.PropagatingImeMode](#) , [Control.BackColorChanged](#) , [Control.BackgroundImageChanged](#) ,  
[Control.BackgroundImageLayoutChanged](#) , [Control.BindingContextChanged](#) ,  
[Control.CausesValidationChanged](#) , [Control.ClientSizeChanged](#) ,  
[Control.ContextMenuStripChanged](#) , [Control.CursorChanged](#) , [Control.DockChanged](#) ,  
[Control.EnabledChanged](#) , [Control.FontChanged](#) , [Control.ForeColorChanged](#) ,  
[Control.LocationChanged](#) , [Control.MarginChanged](#) , [Control.RegionChanged](#) ,  
[Control.RightToLeftChanged](#) , [Control.SizeChanged](#) , [Control.TabIndexChanged](#) ,  
[Control.TabStopChanged](#) , [Control.TextChanged](#) , [Control.VisibleChanged](#) , [Control.Click](#) ,  
[Control.ControlAdded](#) , [Control.ControlRemoved](#) , [Control.DataContextChanged](#) ,  
[Control.DragDrop](#) , [Control.DragEnter](#) , [Control.DragOver](#) , [Control.DragLeave](#) ,

[Control.GiveFeedback](#) , [Control.HandleCreated](#) , [Control.HandleDestroyed](#) ,  
[Control.HelpRequested](#) , [Control.Invalidate](#) , [Control.PaddingChanged](#) , [Control.Paint](#) ,  
[Control.QueryContinueDrag](#) , [Control.QueryAccessibilityHelp](#) , [Control.DoubleClick](#) ,  
[Control.Enter](#) , [Control.GotFocus](#) , [Control.KeyDown](#) , [Control.KeyPress](#) , [Control.KeyUp](#) ,  
[Control.Layout](#) , [Control.Leave](#) , [Control.LostFocus](#) , [Control.MouseClick](#) ,  
[Control.MouseDoubleClick](#) , [Control.MouseCaptureChanged](#) , [Control.MouseDown](#) ,  
[Control.MouseEnter](#) , [Control.MouseLeave](#) , [Control.DpiChangedBeforeParent](#) ,  
[Control.DpiChangedAfterParent](#) , [Control.MouseHover](#) , [Control.MouseMove](#) , [Control.MouseUp](#) ,  
[Control.MouseWheel](#) , [Control.Move](#) , [Control.PreviewKeyDown](#) , [Control.Resize](#) ,  
[Control.ChangeUICues](#) , [Control.StyleChanged](#) , [Control.SystemColorsChanged](#) ,  
[Control.Validating](#) , [Control.Validated](#) , [Control.ParentChanged](#) , [Control.ImeModeChanged](#) ,  
[Component.Dispose\(\)](#) , [Component.GetService\(Type\)](#) , [Component.Container](#) ,  
[Component.DesignMode](#) , [Component.Events](#) , [Component.Dispose](#) ,  
[MarshalByRefObject.GetLifetimeService\(\)](#) , [MarshalByRefObject.InitializeLifetimeService\(\)](#) ,  
[MarshalByRefObject.MemberwiseClone\(bool\)](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,  
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

## Constructors

### TaskTrayForm()

```
public TaskTrayForm()
```

## Methods

### Dispose(bool)

Clean up any resources being used.

```
protected override void Dispose(bool disposing)
```

## Parameters

**disposing** [bool](#)

true if managed resources should be disposed; otherwise, false.

# Namespace Rudeus.Command

## Classes

[Worker](#)

## Interfaces

[IWorker](#)

# Interface IWorker

Namespace: [Rudeus.Command](#)

Assembly: Command.dll

```
public interface IWorker
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T,T\)](#) ,  
[AssertEx.IsNotNull<T>\(T,T\)](#) , [AssertEx.IsNotNull<T>\(T,T,IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T,T\)](#) , [AssertEx.IsNotNull<T>\(T,T\)](#) , [AssertEx.IsNotNull<T>\(T,T,IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T,Expression<Func<T,bool>>,string\)](#) , [AssertEx.IsNotNullInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotNullInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object,object,string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object,object,string\)](#).

## Properties

### AccessTokenValidator

```
IProcedure AccessTokenValidator { get; set; }
```

#### Property Value

[IProcedure](#)

### ScheduledRelularExecuter

```
IProcedure ScheduledRelularExecuter { get; set; }
```

#### Property Value

[IProcedure](#)

### UserLoginExecuter

```
IProcedure UserLoginExecuter { get; set; }
```

Property Value

[IProcedure](#)

# Class Worker

Namespace: [Rudeus.Command](#)

Assembly: Command.dll

```
public class Worker : BackgroundService, IHostedService, IDisposable, IWorker
```

## Inheritance

[object](#) ← [BackgroundService](#) ← Worker

## Implements

[IHostedService](#), [IDisposable](#), [IWorker](#)

## Inherited Members

[BackgroundService.StartAsync\(CancellationToken\)](#) ,  
[BackgroundService.StopAsync\(CancellationToken\)](#) , [BackgroundService.Dispose\(\)](#) ,  
[BackgroundService.ExecuteTask](#) , [object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) ,  
[object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,  
[object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#)

# Constructors

Worker(ILOGGER<Worker>, IProcedure?, IProcedure?, IProcedure?)

```
public Worker(ILOGGER<Worker> logger, IProcedure? at = null, IProcedure? sr = null,  
IProcedure? u1 = null)
```

## Parameters

logger [ILogger](#)<Worker>

at [IProcedure](#)

sr [IProcedure](#)

ul [IProcedure](#)

## Properties

### AccessTokenValidator

`public IProcedure AccessTokenValidator { get; set; }`

Property Value

[IProcedure](#)

### ScheduledRelularExecuter

`public IProcedure ScheduledRelularExecuter { get; set; }`

Property Value

[IProcedure](#)

### UserLoginExecuter

`public IProcedure UserLoginExecuter { get; set; }`

Property Value

[IProcedure](#)

settings

```
public static Settings settings { get; set; }
```

Property Value

[Settings](#)

## Methods

### ExecuteAsync(CancellationToken)

This method is called when the [IHostedService](#) starts. The implementation should return a task that represents the lifetime of the long running operation(s) being performed.

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

Parameters

stoppingToken  [CancellationToken](#)

Triggered when [StopAsync\(CancellationToken\)](#) is called.

Returns

[Task](#)

A [Task](#) that represents the long running operations.

Remarks

See [Worker Services in .NET](#) for implementation guidelines.

# Namespace Rudeus.Initializer

## Classes

[Program](#)

# Class Program

Namespace: [Rudeus.Initializer](#)

Assembly: Initializer.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Properties

## CheckLogMessage

```
public static bool? CheckLogMessage { get; set; }
```

## Property Value

[bool](#)?

## \_certificateInstaller

```
public static IProcedure _certificateInstaller { get; set; }
```

Property Value

[IProcedure](#)

## \_registryInitializer

```
public static IProcedure _registryInitializer { get; set; }
```

Property Value

[IProcedure](#)

## \_serverRegister

```
public static IProcedure _serverRegister { get; set; }
```

Property Value

[IProcedure](#)

## \_taskInitializer

```
public static IProcedure _taskInitializer { get; set; }
```

Property Value

[IProcedure](#)

# Methods

## Main(string[])

```
public static void Main(string[] args)
```

Parameters

**args** [string](#)[]

**MainAsync(string[])**

```
public static Task MainAsync(string[] args)
```

Parameters

**args** [string](#)[]

Returns

[Task](#)

# Namespace Rudeus.Initializer.Procedure

## Classes

### [TaskInitializer](#)

タスクスケジューラーの初期化を行う手続き

# Class TaskInitializer

Namespace: [Rudeus.Initializer.Procedure](#)

Assembly: Initializer.dll

タスクスケジューラーの初期化を行う手続き

```
public class TaskInitializer : IProcedure
```

Inheritance

[object](#) ← TaskInitializer

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Methods

### Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Namespace Rudeus.Initializer.Test

## Classes

[ProgramTests](#)

[TaskInitializerTests](#)

# Class ProgramTests

Namespace: [Rudeus.Initializer.Test](#)

Assembly: Test.dll

```
public class ProgramTests
```

## Inheritance

[object](#) ← ProgramTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestMain()

```
[Fact]  
public void TestMain()
```

# Class TaskInitializerTests

Namespace: [Rudeus.Initializer.Test](#)

Assembly: Test.dll

```
public class TaskInitializerTests
```

## Inheritance

[object](#) ← TaskInitializerTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Namespace Rudeus.Launcher

## Classes

[Program](#)

[Updater](#)

起動アプリのアップデートを行う手続き

# Class Program

Namespace: [Rudeus.Launcher](#)

Assembly: Launcher.dll

```
public class Program
```

## Inheritance

[object](#) ← Program

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

# Properties

## \_appSettings

```
public static ISettings _appSettings { get; set; }
```

## Property Value

[ISettings](#)

## \_argsStr

```
public static string _argsStr { get; set; }
```

Property Value

[string](#) ↴

\_launcher

```
public static ILauncher _launcher { get; set; }
```

Property Value

[ILauncher](#)

\_updater

```
public static IProcedure _updater { get; set; }
```

Property Value

[IProcedure](#)

## Methods

Main(string[])

```
public static void Main(string[] args)
```

Parameters

args [string](#) ↴[]

MainAsync()

```
public static Task MainAsync()
```

## Returns

[Task ↗](#)

# Class Updater

Namespace: [Rudeus.Launcher](#)

Assembly: Launcher.dll

起動アプリのアップデートを行う手続き

```
public class Updater : IProcedure
```

Inheritance

[object](#) ← Updater

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### Updater(ISettings?)

```
public Updater(ISettings? aps = null)
```

Parameters

aps [ISettings](#)

# Properties

## \_settings

```
public ISettings _settings { get; set; }
```

## Property Value

[ISettings](#)

# Methods

## Run()

処理を実行する

```
public Task Run()
```

## Returns

[Task](#)

## ShouldUpdate(string, string)

```
public bool ShouldUpdate(string localVersion, string remoteVersion)
```

## Parameters

localVersion [string](#)

remoteVersion [string](#)

## Returns

[bool](#)

# Namespace Rudeus.Launcher.Procedure

## Classes

### [Launcher](#)

アプリの起動を行う手続き

## Interfaces

### [ILauncher](#)

LauncherはExitCodeを返すべき手続きだったので作成

# Interface ILauncher

Namespace: [Rudeus.Launcher.Procedure](#)

Assembly: Launcher.dll

LauncherはExitCodeを返すべき手続きだったので作成

```
public interface ILauncher : IProcedure
```

## Inherited Members

[IProcedure.Run\(\)](#)

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsNotNull<T>\(T, string\)](#) , [AssertEx.IsNotNullOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotNullOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

# Properties

## ExitCode

```
int ExitCode { get; set; }
```

Property Value

[int](#) ↗

# Class Launcher

Namespace: [Rudeus.Launcher.Procedure](#)

Assembly: Launcher.dll

アプリの起動を行う手続き

```
public class Launcher : ILauncher, IProcedure
```

Inheritance

[object](#) ← Launcher

Implements

[ILauncher](#), [IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

Launcher(ISettings, string, Func<string, string, int>?)

```
public Launcher(ISettings aps, string args = "", Func<string, string, int>? startProcess  
= null)
```

Parameters

aps [ISettings](#)

args [string](#)

startProcess [Func](#)<[string](#), [string](#), [int](#)>

## Properties

### AppSettings

`public ISettings AppSettings { get; set; }`

Property Value

[ISettings](#)

### Args

`public string Args { get; set; }`

Property Value

[string](#)

### ExitCode

`public int ExitCode { get; set; }`

Property Value

[int](#)

### StartProcess

`public Func<string, string, int> StartProcess { get; set; }`

## Property Value

[Func](#)<[string](#), [string](#), [int](#)>

## Methods

### Run()

処理を実行する

```
public Task Run()
```

### Returns

[Task](#)

# Namespace Rudeus.Launcher.Test

## Classes

[LauncherTests](#)

[ProgramTests](#)

[UpdaterTests](#)

# Class LauncherTests

Namespace: [Rudeus.Launcher.Test](#)

Assembly: Test.dll

```
public class LauncherTests
```

## Inheritance

[object](#) ← LauncherTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestRun()

```
[Fact]  
public Task TestRun()
```

## Returns

[Task](#)

## TestRun2()

```
[Fact]  
public Task TestRun2()
```

Returns

[Task](#) ↗

## TestRun3()

```
[Fact]  
public Task TestRun3()
```

Returns

[Task](#) ↗

# Class ProgramTests

Namespace: [Rudeus.Launcher.Test](#)

Assembly: Test.dll

```
public class ProgramTests
```

## Inheritance

[object](#) ← ProgramTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## Test1()

```
[Fact]  
public void Test1()
```

# Class UpdaterTests

Namespace: [Rudeus.Launcher.Test](#)

Assembly: Test.dll

```
public class UpdaterTests
```

## Inheritance

[object](#) ← UpdaterTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Namespace Rudeus.Model

## Classes

### [ApplicationData](#)

取得したインストール済みアプリのデータを保持する構造体

### [FakeLocalCertificate](#)

ローカルマシンの証明書を操作するモデルのFake実装

### [FakeSettings](#)

レジストリの設定を保持するモデルのFake実装

### [InstalledApplications](#)

インストール済みアプリのデータを取得するモデル

### [LocalMachine](#)

ローカルマシンの情報を取得するモデル

### [Settings](#)

レジストリに設定を保持するモデル

## Interfaces

### [ILocalCertificate](#)

ローカルマシンの証明書を操作するモデルのインターフェース

### [ILocalMachine](#)

ローカルマシンの情報を取得するモデルのインターフェース

### [ISettings](#)

設定をレジストリに保管するモデル

# Class ApplicationData

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

取得したインストール済みアプリのデータを保持する構造体

```
public class ApplicationData
```

## Inheritance

[object](#) ← ApplicationData

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#)

## Constructors

### ApplicationData()

```
public ApplicationData()
```

### ApplicationData(string, string)

```
public ApplicationData(string name, string version)
```

## Parameters

name [string](#)

version [string](#)

## Properties

### Name

```
public string Name { get; set; }
```

### Property Value

[string](#)

### Version

```
public string Version { get; set; }
```

### Property Value

[string](#)

# Class FakeLocalCertificate

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

ローカルマシンの証明書を操作するモデルのFake実装

```
public class FakeLocalCertificate : ILocalCertificate
```

Inheritance

[object](#) ← FakeLocalCertificate

Implements

[ILocalCertificate](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Fields

\_fakeLocalCertificate

```
public static ILocalCertificate _fakeLocalCertificate
```

Field Value

[ILocalCertificate](#)

# Methods

## Create()

新しいインスタンスを生成する

```
public static ILocalCertificate Create()
```

Returns

[ILocalCertificate](#)

## GetCertificate(string)

```
public X509Certificate2 GetCertificate(string issuer)
```

Parameters

issuer [string](#)

Returns

[X509Certificate2](#)

## GetInstance()

单一のインスタンスを取得する

```
public static ILocalCertificate GetInstance()
```

Returns

[ILocalCertificate](#)

## InstallCertificateIntoRoot(string)

```
public void InstallCertificateIntoRoot(string path)
```

Parameters

path [string](#)

## InstallPkcs12IntoMy(string, string)

```
public void InstallPkcs12IntoMy(string path, string password)
```

Parameters

path [string](#)

password [string](#)

## UninstallCertificateFromString(string)

```
public void UninstallCertificateFromString(string certificate)
```

Parameters

certificate [string](#)

# Class FakeSettings

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

レジストリの設定を保持するモデルのFake実装

```
public class FakeSettings : ISettings
```

Inheritance

[object](#) ← FakeSettings

Implements

[ISettings](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Properties

### AccessTokenP

```
public string AccessTokenP { get; set; }
```

Property Value

[string](#)

## CurrentVersionP

```
public string CurrentVersionP { get; set; }
```

Property Value

[string](#) ↗

## DeviceIdP

```
public string DeviceIdP { get; set; }
```

Property Value

[string](#) ↗

## FirstHostnameP

```
public string FirstHostnameP { get; set; }
```

Property Value

[string](#) ↗

## HostnameP

```
public string HostnameP { get; set; }
```

Property Value

[string](#) ↗

## LabelIdP

```
public string LabelIdP { get; set; }
```

Property Value

[string](#)

## LastDirNameP

```
public string LastDirNameP { get; set; }
```

Property Value

[string](#)

## LastVersionDirPathP

```
public string LastVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LastVersionExeNameP

```
public string LastVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LastVersionExePathP

```
public string LastVersionExePathP { get; set; }
```

Property Value

[string](#)

## LatestDirNameP

```
public string LatestDirNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionDirPathP

```
public string LatestVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LatestVersionExeNameP

```
public string LatestVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionExePathP

```
public string LatestVersionExePathP { get; set; }
```

Property Value

[string](#)

## LatestVersionStatusP

```
public string LatestVersionStatusP { get; set; }
```

Property Value

[string](#)

## UpdatingChannelIP

```
public string UpdatingChannelIP { get; set; }
```

Property Value

[string](#)

## UsernameP

```
public string UsernameP { get; set; }
```

Property Value

[string](#)

## Methods

### Create()

```
public static ISettings Create()
```

Returns

[ISettings](#)

## GetInstance()

```
public static ISettings GetInstance()
```

Returns

[ISettings](#)

## IsBetaChannelP()

```
public bool IsBetaChannelP()
```

Returns

[bool](#)

## IsDevelopChannelP()

```
public bool IsDevelopChannelP()
```

Returns

[bool](#)

## IsLatestVersionStatusDownloadedP()

```
public bool IsLatestVersionStatusDownloadedP()
```

Returns

[bool](#)

## IsLatestVersionStatusOkP()

```
public bool IsLatestVersionStatusOkP()
```

Returns

[bool](#)

## IsLatestVersionStatusUnlaunchableP()

```
public bool IsLatestVersionStatusUnlaunchableP()
```

Returns

[bool](#)

## IsStableChannelP()

```
public bool IsStableChannelP()
```

Returns

[bool](#)

## IsTestChannelP()

```
public bool IsTestChannelP()
```

Returns

bool

## SetBetaChannelP()

```
public void SetBetaChannelP()
```

## SetDevelopChannelP()

```
public void SetDevelopChannelP()
```

## SetLatestVersionStatusDownloadedP()

```
public void SetLatestVersionStatusDownloadedP()
```

## SetLatestVersionStatusOkP()

```
public void SetLatestVersionStatusOkP()
```

## SetLatestVersionStatusUnlaunchableP()

```
public void SetLatestVersionStatusUnlaunchableP()
```

## SetStableChannelP()

```
public void SetStableChannelP()
```

## SetTestChannelP()

```
public void SetTestChannelP()
```

# Interface ILocalCertificate

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

ローカルマシンの証明書を操作するモデルのインターフェース

```
public interface ILocalCertificate
```

## Extension Methods

[AssertEx.IsInstanceOf<TExpected>\(object\)](#) , [AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Methods

### GetCertificate(string)

```
X509Certificate2? GetCertificate(string issuer)
```

Parameters

issuer [string](#)

Returns

[X509Certificate2](#)

### GetInstance()

```
public static abstract ILocalCertificate GetInstance()
```

Returns

[ILocalCertificate](#)

## InstallCertificateIntoRoot(string)

```
void InstallCertificateIntoRoot(string path)
```

### Parameters

path [string](#)

## InstallPkcs12IntoMy(string, string)

```
void InstallPkcs12IntoMy(string path, string password)
```

### Parameters

path [string](#)

password [string](#)

## UninstallCertificateFromString(string)

```
void UninstallCertificateFromString(string certificate)
```

### Parameters

certificate [string](#)

# Interface ILocalMachine

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

ローカルマシンの情報を取得するモデルのインターフェース

```
public interface ILocalMachine
```

## Extension Methods

[AssertEx.IsInstanceOf<TExpected>\(object\)](#) , [AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) ,  
[AssertEx.IsNotNullEqual\(object, object, string\)](#) , [AssertEx.IsNotNullEqual\(object, object, string\)](#).

## Methods

### GetDeviceId()

```
string GetDeviceId()
```

Returns

[string](#)

### GetHostname()

```
string GetHostname()
```

Returns

[string](#)

### GetInstance()

```
public static abstract ILocalMachine GetInstance()
```

Returns

[ILocalMachine](#)

## GetPhysicalRamInfo()

`string GetPhysicalRamInfo()`

Returns

[string](#)

## GetSpec()

`string GetSpec()`

Returns

[string](#)

## GetStorageDeviceIdList()

`List<string> GetStorageDeviceIdList()`

Returns

[List](#)<[string](#)>

## GetWinVersion()

`string GetWinVersion()`

Returns

[string](#) ↗

# Interface ISettings

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

設定をレジストリに保管するモデル

```
public interface ISettings
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsNotNullOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotNullInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Properties

### AccessTokenP

```
string AccessTokenP { get; set; }
```

Property Value

[string](#) ↗

### CurrentVersionP

```
string CurrentVersionP { get; set; }
```

Property Value

[string](#) ↗

## DeviceIdP

```
string DeviceIdP { get; set; }
```

### Property Value

[string](#)

## FirstHostnameP

```
string FirstHostnameP { get; set; }
```

### Property Value

[string](#)

## HostnameP

```
string HostnameP { get; set; }
```

### Property Value

[string](#)

## LabelIdP

```
string LabelIdP { get; set; }
```

### Property Value

[string](#)

## LastDirNameP

```
string LastDirNameP { get; set; }
```

Property Value

[string](#)

## LastVersionDirPathP

```
string LastVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LastVersionExeNameP

```
string LastVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LastVersionExePathP

```
string LastVersionExePathP { get; }
```

Property Value

[string](#)

## LatestDirNameP

```
string LatestDirNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionDirPathP

```
string LatestVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LatestVersionExeNameP

```
string LatestVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionExePathP

```
string LatestVersionExePathP { get; }
```

Property Value

[string](#)

## LatestVersionStatusP

```
string LatestVersionStatusP { get; set; }
```

Property Value

[string](#)

## UpdatingChannelP

```
string UpdatingChannelP { get; set; }
```

Property Value

[string](#)

## UsernameP

```
string UsernameP { get; set; }
```

Property Value

[string](#)

## Methods

### IsBetaChannelP()

```
bool IsBetaChannelP()
```

Returns

[bool](#)

### IsDevelopChannelP()

```
bool IsDevelopChannelP()
```

Returns

[bool](#)

## IsLatestVersionStatusDownloadedP()

```
bool IsLatestVersionStatusDownloadedP()
```

Returns

[bool](#)

## IsLatestVersionStatusOkP()

```
bool IsLatestVersionStatusOkP()
```

Returns

[bool](#)

## IsLatestVersionStatusUnlaunchableP()

```
bool IsLatestVersionStatusUnlaunchableP()
```

Returns

[bool](#)

## IsStableChannelP()

```
bool IsStableChannelP()
```

Returns

bool

## IsTestChannelP()

```
bool IsTestChannelP()
```

Returns

bool

## SetBetaChannelP()

```
void SetBetaChannelP()
```

## SetDevelopChannelP()

```
void SetDevelopChannelP()
```

## SetLatestVersionStatusDownloadedP()

```
void SetLatestVersionStatusDownloadedP()
```

## SetLatestVersionStatusOkP()

```
void SetLatestVersionStatusOkP()
```

## SetLatestVersionStatusUnlaunchableP()

```
void SetLatestVersionStatusUnlaunchableP()
```

## SetStableChannelP()

```
void SetStableChannelP()
```

## SetTestChannelP()

```
void SetTestChannelP()
```

# Class InstalledApplications

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

インストール済みアプリのデータを取得するモデル

```
public class InstalledApplications
```

## Inheritance

[object](#) ← InstalledApplications

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#)

## Methods

### LoadAsync()

```
public static Task<List<ApplicationData>> LoadAsync()
```

## Returns

[Task](#) <[List](#) <[ApplicationData](#)>>

# Class LocalMachine

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

ローカルマシンの情報を取得するモデル

```
public class LocalMachine : ILocalMachine
```

Inheritance

[object](#) ← LocalMachine

Implements

[ILocalMachine](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Methods

### GetDeviceId()

```
public string GetDeviceId()
```

Returns

[string](#)

## GetHostname()

```
public string GetHostname()
```

Returns

[string](#)

## GetInstance()

```
public static ILocalMachine GetInstance()
```

Returns

[ILocalMachine](#)

## GetPhysicalRamInfo()

```
public string GetPhysicalRamInfo()
```

Returns

[string](#)

## GetSpec()

```
public string GetSpec()
```

Returns

[string](#)

## GetStorageDeviceIdList()

```
public List<string> GetStorageDeviceIdList()
```

Returns

[List](#) <[string](#)>

## GetWinVersion()

```
public string GetWinVersion()
```

Returns

[string](#)

# Class Settings

Namespace: [Rudeus.Model](#)

Assembly: SharedLib.dll

レジストリに設定を保持するモデル

```
public class Settings : ISettings
```

Inheritance

[object](#) ← Settings

Implements

[ISettings](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### Settings()

```
public Settings()
```

### Settings(string)

```
public Settings(string registryKey)
```

## Parameters

`registryKey` [string](#)

## Fields

### AccessTokenKey

`public static string AccessTokenKey`

Field Value

[string](#)

### CurrentVersionKey

`public static string CurrentVersionKey`

Field Value

[string](#)

### DeviceIdKey

`public static string DeviceIdKey`

Field Value

[string](#)

### FirstHostnameKey

`public static string FirstHostnameKey`

Field Value

[string](#) ↗

## HostnameKey

`public static string HostnameKey`

Field Value

[string](#) ↗

## LabelIdKey

`public static string LabelIdKey`

Field Value

[string](#) ↗

## LatestVersionStatusKey

`public static string LatestVersionStatusKey`

Field Value

[string](#) ↗

## NetworkIFListKey

`public string NetworkIFListKey`

Field Value

[string](#) ↗

## UpdateChannelKey

```
public static string UpdateChannelKey
```

Field Value

[string](#) ↗

## UsernameKey

```
public static string UsernameKey
```

Field Value

[string](#) ↗

## Properties

### AccessToken

```
public static string AccessToken { get; set; }
```

Property Value

[string](#) ↗

### AccessTokenP

```
public string AccessTokenP { get; set; }
```

Property Value

[string](#) ↗

## CurrentVersion

```
public static string CurrentVersion { get; set; }
```

Property Value

[string](#) ↗

## CurrentVersionP

```
public string CurrentVersionP { get; set; }
```

Property Value

[string](#) ↗

## DeviceId

```
public static string DeviceId { get; set; }
```

Property Value

[string](#) ↗

## DeviceIdP

```
public string DeviceIdP { get; set; }
```

Property Value

[string](#) ↗

## FirstHostname

```
public static string FirstHostname { get; set; }
```

Property Value

[string](#) ↗

## FirstHostnameP

```
public string FirstHostnameP { get; set; }
```

Property Value

[string](#) ↗

## Hostname

```
public static string Hostname { get; set; }
```

Property Value

[string](#) ↗

## HostnameP

```
public string HostnameP { get; set; }
```

Property Value

[string](#) ↗

## InitLabelId

```
public static string InitLabelId { get; }
```

Property Value

[string](#)

InitUsername

```
public static string InitUsername { get; }
```

Property Value

[string](#)

LabelId

```
public static string LabelId { get; set; }
```

Property Value

[string](#)

LabelIdP

```
public string LabelIdP { get; set; }
```

Property Value

[string](#)

LastDirName

```
public static string LastDirName { get; set; }
```

Property Value

[string](#)

## LastDirNameP

```
public string LastDirNameP { get; set; }
```

Property Value

[string](#)

## LastVersionDirPath

```
public static string LastVersionDirPath { get; set; }
```

Property Value

[string](#)

## LastVersionDirPathP

```
public string LastVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LastVersionExeName

```
public static string LastVersionExeName { get; set; }
```

Property Value

[string](#)

## LastVersionExeNameP

```
public string LastVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LastVersionExePath

```
public static string LastVersionExePath { get; }
```

Property Value

[string](#)

## LastVersionExePathP

```
public string LastVersionExePathP { get; }
```

Property Value

[string](#)

## LatestDirName

```
public static string LatestDirName { get; set; }
```

Property Value

[string](#)

## LatestDirNameP

```
public string LatestDirNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionDirPath

```
public static string LatestVersionDirPath { get; set; }
```

Property Value

[string](#)

## LatestVersionDirPathP

```
public string LatestVersionDirPathP { get; set; }
```

Property Value

[string](#)

## LatestVersionExeName

```
public static string LatestVersionExeName { get; set; }
```

Property Value

[string](#)

## LatestVersionExeNameP

```
public string LatestVersionExeNameP { get; set; }
```

Property Value

[string](#)

## LatestVersionExePath

```
public static string LatestVersionExePath { get; }
```

Property Value

[string](#)

## LatestVersionExePathP

```
public string LatestVersionExePathP { get; }
```

Property Value

[string](#)

## LatestVersionStatus

```
public static string LatestVersionStatus { get; set; }
```

Property Value

[string](#)

## LatestVersionStatusP

```
public string LatestVersionStatusP { get; set; }
```

Property Value

[string](#)

## NetworkIFList

```
public string NetworkIFList { get; set; }
```

Property Value

[string](#)

## UpdatingChannel

```
public static string UpdatingChannel { get; set; }
```

Property Value

[string](#)

## UpdatingChannelIP

```
public string UpdatingChannelP { get; set; }
```

Property Value

[string](#)

## Username

```
public static string Username { get; set; }
```

Property Value

[string](#)

## UsernameP

```
public string UsernameP { get; set; }
```

Property Value

[string](#)

## Methods

### IsBetaChannel()

```
public static bool IsBetaChannel()
```

Returns

[bool](#)

### IsBetaChannelP()

```
public bool IsBetaChannel()
```

Returns

[bool](#)

## IsDevelopChannel()

```
public static bool IsDevelopChannel()
```

Returns

[bool](#)

## IsDevelopChannelP()

```
public bool IsDevelopChannelP()
```

Returns

[bool](#)

## IsLatestVersionStatusDownloaded()

```
public static bool IsLatestVersionStatusDownloaded()
```

Returns

[bool](#)

## IsLatestVersionStatusDownloadedP()

```
public bool IsLatestVersionStatusDownloadedP()
```

Returns

[bool](#)

## IsLatestVersionStatusOk()

```
public static bool IsLatestVersionStatusOk()
```

Returns

[bool](#)

## IsLatestVersionStatusOkP()

```
public bool IsLatestVersionStatusOkP()
```

Returns

[bool](#)

## IsLatestVersionStatusUnlaunchable()

```
public static bool IsLatestVersionStatusUnlaunchable()
```

Returns

[bool](#)

## IsLatestVersionStatusUnlaunchableP()

```
public bool IsLatestVersionStatusUnlaunchableP()
```

Returns

[bool](#)

## IsStableChannel()

```
public static bool IsStableChannel()
```

Returns

[bool](#)

## IsStableChannelP()

```
public bool IsStableChannelP()
```

Returns

[bool](#)

## IsTestChannel()

```
public static bool IsTestChannel()
```

Returns

[bool](#)

## IsTestChannelP()

```
public bool IsTestChannel()
```

Returns

bool

## SetBetaChannel()

```
public static void SetBetaChannel()
```

## SetBetaChannelP()

```
public void SetBetaChannelP()
```

## SetDevelopChannel()

```
public static void SetDevelopChannel()
```

## SetDevelopChannelP()

```
public void SetDevelopChannelP()
```

## SetLatestVersionStatusDownloaded()

```
public static void SetLatestVersionStatusDownloaded()
```

## SetLatestVersionStatusDownloadedP()

```
public void SetLatestVersionStatusDownloadedP()
```

## SetLatestVersionStatusOk()

```
public static void SetLatestVersionStatusOk()
```

## SetLatestVersionStatusOkP()

```
public void SetLatestVersionStatusOkP()
```

## SetLatestVersionStatusUnlaunchable()

```
public static void SetLatestVersionStatusUnlaunchable()
```

## SetLatestVersionStatusUnlaunchableP()

```
public void SetLatestVersionStatusUnlaunchableP()
```

## SetStableChannel()

```
public static void SetStableChannel()
```

## SetStableChannelP()

```
public void SetStableChannelP()
```

## SetTestChannel()

```
public static void SetTestChannel()
```

## SetTestChannelP()

```
public void SetTestChannelP()
```

## UpdateRegistryKey(string?)

```
public static void UpdateRegistryKey(string? registryKey = null)
```

### Parameters

registryKey [string](#)

# Namespace Rudeus.Procedure

## Classes

### [AccessTokenValidator](#)

アクセストークンの有効性を確認し、無効なら再発行する手続き

### [CertificateInstaller](#)

ローカルマシンに証明書をインストールする手続き

### [FakeProcedure](#)

IProcedureのFake実装

### [RegistryInitializer](#)

ローカルマシンに必要なレジストリを初期化する手続き

### [ScheduledRegularExecuter](#)

定期実行する処理を実行する手続き デバイス情報の更新とサーバからのpush\_dataの処理を行う

### [ServerRegister](#)

管理サーバにデバイスを登録する手続き

### [UserLoginExecuter](#)

ユーザーのログインを行う手続き

## Interfaces

### [IFakeProcedure](#)

### [IProcedure](#)

ひとまとめの処理を実行するインターフェース 例えば、アクセストークンの再発行、インストール済みアプリの送信など

# Class AccessTokenValidator

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

アクセストークンの有効性を確認し、無効なら再発行する手続き

```
public class AccessTokenValidator : IProcedure
```

Inheritance

[object](#) ← AccessTokenValidator

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### AccessTokenValidator(ISettings?)

```
public AccessTokenValidator(ISettings? cs = null)
```

Parameters

cs [ISettings](#)

# Properties

## \_settings

```
public ISettings _settings { get; set; }
```

Property Value

[ISettings](#)

# Methods

## IsFirstRun()

```
public bool IsFirstRun()
```

Returns

[bool](#)

## Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Class CertificateInstaller

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

ローカルマシンに証明書をインストールする手続き

```
public class CertificateInstaller : IProcedure
```

Inheritance

[object](#) ← CertificateInstaller

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

**CertificateInstaller(ILocalCertificate?)**

```
public CertificateInstaller(ILocalCertificate? lc = null)
```

Parameters

lc [ILocalCertificate](#)

# Properties

## \_localCertificate

```
public ILocalCertificate _localCertificate { get; set; }
```

Property Value

[ILocalCertificate](#)

# Methods

## Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Class FakeProcedure

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

IProcedureのFake実装

```
public class FakeProcedure : IFakeProcedure, IProcedure
```

Inheritance

[object](#) ← FakeProcedure

Implements

[IFakeProcedure](#), [IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### FakeProcedure()

```
public FakeProcedure()
```

## Properties

### RunCount

Runメソッドが呼ばれた回数

```
public int RunCount { get; }
```

Property Value

[int](#)

## Methods

Run()

```
public Task Run()
```

Returns

[Task](#)

# Interface IFakeProcedure

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

```
public interface IFakeProcedure : IProcedure
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsNotNullInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotNullInstanceOf<T>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Properties

### RunCount

```
int RunCount { get; }
```

### Property Value

[int](#)

## Methods

### Run()

```
Task Run()
```

### Returns

[Task](#)

# Interface IProcedure

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

ひとまとめの処理を実行するインターフェース 例えば、アクセストークンの再発行、インストール済みアプリの送信など

```
public interface IProcedure
```

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.IsNotNull<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsNotNullOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotNullOf<TWrong>\(object\)](#) , [AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

## Methods

### Run()

処理を実行する

```
Task Run()
```

### Returns

[Task](#) ↗

# Class RegistryInitializer

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

ローカルマシンに必要なレジストリを初期化する手続き

```
public class RegistryInitializer : IProcedure
```

Inheritance

[object](#) ← RegistryInitializer

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### RegistryInitializer(ISettings?, ISettings?, ISettings?, ISettings?)

```
public RegistryInitializer(ISettings? cfs = null, ISettings? ins = null, ISettings? bgs = null, ISettings? bfs = null)
```

Parameters

**cfs** [ISettings](#)

ins [ISettings](#)

bgs [ISettings](#)

bfs [ISettings](#)

## Properties

### BfSettings

```
public ISettings BfSettings { get; set; }
```

Property Value

[ISettings](#)

### BgSettings

```
public ISettings BgSettings { get; set; }
```

Property Value

[ISettings](#)

### ConfSettings

```
public ISettings ConfSettings { get; set; }
```

Property Value

[ISettings](#)

### InnoSettings

```
public ISettings InnoSettings { get; set; }
```

Property Value

[ISettings](#)

## Methods

Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Class ScheduledRegularExecuter

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

定期実行する処理を実行する手続き デバイス情報の更新とサーバからのpush\_dataの処理を行う

```
public class ScheduledRegularExecuter : IProcedure
```

## Inheritance

[object](#) ← ScheduledRegularExecuter

## Implements

[IProcedure](#)

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Methods

### Run()

処理を実行する

```
public Task Run()
```

### Returns

[Task](#)

# Class ServerRegister

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

管理サーバにデバイスを登録する手続き

```
public class ServerRegister : IProcedure
```

Inheritance

[object](#) ← ServerRegister

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Constructors

### ServerRegister(ILocalMachine?, ISettings?)

```
public ServerRegister(ILocalMachine? lm = null, ISettings? cs = null)
```

Parameters

lm [ILocalMachine](#)

cs [ISettings](#)

# Properties

## \_localMachine

```
public ILocalMachine _localMachine { get; set; }
```

Property Value

[ILocalMachine](#)

## \_settings

```
public ISettings _settings { get; set; }
```

Property Value

[ISettings](#)

# Methods

## Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Class UserLoginExecuter

Namespace: [Rudeus.Procedure](#)

Assembly: SharedLib.dll

ユーザーのログインを行う手続き

```
public class UserLoginExecuter : IProcedure
```

Inheritance

[object](#) ← UserLoginExecuter

Implements

[IProcedure](#)

Inherited Members

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

Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<TExpected>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<TWrong>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

## Properties

### OpenBrowser

```
public static Func<string, bool> OpenBrowser { get; set; }
```

Property Value

[Func](#) <[string](#), [bool](#)>

## Methods

### Run()

処理を実行する

```
public Task Run()
```

Returns

[Task](#)

# Namespace Rudeus.Procedure.Test

## Classes

[CertificateInstallerTests](#)

[FakeProcedureTests](#)

[RegistryInitializerTests](#)

# Class CertificateInstallerTests

Namespace: [Rudeus.Procedure.Test](#)

Assembly: Test.dll

```
public class CertificateInstallerTests
```

## Inheritance

[object](#) ← CertificateInstallerTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestRun()

```
[Fact]  
public void TestRun()
```

# Class FakeProcedureTests

Namespace: [Rudeus.Procedure.Test](#)

Assembly: Test.dll

```
public class FakeProcedureTests
```

## Inheritance

[object](#) ← FakeProcedureTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestRun()

```
[Fact]  
public Task TestRun()
```

## Returns

[Task](#)

# Class RegistryInitializerTests

Namespace: [Rudeus.Procedure.Test](#)

Assembly: Test.dll

```
public class RegistryInitializerTests
```

## Inheritance

[object](#) ← RegistryInitializerTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestRun()

```
[Fact]  
public void TestRun()
```

# Namespace Rudeus.Test

## Classes

[ConstantsTests](#)

[UnitTestSample](#)

[UtilsTests](#)

# Class ConstantsTests

Namespace: [Rudeus.Test](#)

Assembly: Test.dll

```
public class ConstantsTests
```

## Inheritance

[object](#) ← ConstantsTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Class UnitTestSample

Namespace: [Rudeus.Test](#)

Assembly: Test.dll

```
public class UnitTestSample
```

## Inheritance

[object](#) ← UnitTestSample

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#).

# Methods

## TestTest()

```
[Fact(DisplayName = "テストの書き方サンプル")]
public void TestTest()
```

# Class UtilsTests

Namespace: [Rudeus.Test](#)

Assembly: Test.dll

```
public class UtilsTests
```

## Inheritance

[object](#) ← UtilsTests

## Inherited Members

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

## Extension Methods

[AssertEx.AsDynamic<T>\(T\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) , [AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) ,  
[AssertEx.IsNotNull<T>\(T, T\)](#) , [AssertEx.IsNotNull<T>\(T, T, IEqualityComparer<T>\)](#) , [AssertEx.IsNotNull<T>\(T\)](#) ,  
[AssertEx.IsNotNullSameReferenceAs<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T\)](#) , [AssertEx.Is<T>\(T, T, IEqualityComparer<T>\)](#) ,  
[AssertEx.Is<T>\(T, Expression<Func<T, bool>>, string\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,  
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [AssertEx.IsNotStructuralEqual\(object, object, string\)](#) ,  
[AssertEx.IsStructuralEqual\(object, object, string\)](#)

# Methods

## TestCompareVersionString()

```
[Fact(DisplayName = "CompareVersionString")]
public void TestCompareVersionString()
```

## TestConcatStudentNumberFromMail()

```
[Fact(DisplayName = "ConcatStudentNumberFromMail")]
public void TestConcatStudentNumberFromMail()
```

## TestIsStudentMailAddress()

```
[Fact(DisplayName = "IsStudentMailAddress")]
public void TestIsStudentMailAddress()
```

# Namespace Xunit

## Classes

[AssertEx](#)

# Class AssertEx

Namespace: [Xunit](#)

Assembly: Test.dll

```
[ContractVerification(false)]
public static class AssertEx
```

## Inheritance

[object](#) ← AssertEx

## Inherited Members

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

## Methods

### AsDynamic<T>(T)

to DynamicAccessor that can call private method/field/property/indexer.

```
public static dynamic AsDynamic<T>(this T target)
```

#### Parameters

**target** T

#### Returns

dynamic

#### Type Parameters

T

### IsFalse(bool)

Is(false)

```
public static void IsFalse(this bool value)
```

Parameters

value bool ↗

## IsInstanceOf<TExpected>(object)

Assert.IsType

```
public static TExpected IsInstanceOf<TExpected>(this object value)
```

Parameters

value object ↗

Returns

TExpected

Type Parameters

**TExpected**

## IsNotInstanceOf<TWrong>(object)

Assert.IsNotNullType

```
public static void IsNotInstanceOf<TWrong>(this object value)
```

Parameters

value object ↗

Type Parameters

Twrong

## IsNotNull<T>(T)

Assert.NotNull

```
public static void IsNotNull<T>(this T value)
```

Parameters

value T

Type Parameters

T

## IsNotSameReferenceAs<T>(T, T)

Assert.NotSame

```
public static void IsNotSameReferenceAs<T>(this T actual, T notExpected)
```

Parameters

actual T

notExpected T

Type Parameters

T

## IsNotStructuralEqual(object, object, string)

Assert by deep recursive value equality compare

```
public static void IsNotStructuralEqual(this object actual, object expected, string message
= "")
```

## Parameters

actual [object](#)

expected [object](#)

message [string](#)

## IsNot<T>(IEnumerable<T>, IEnumerable<T>)

Assert.AreEqual(sequence value compare)

```
public static void IsNot<T>(this IEnumerable<T> actual, IEnumerable<T> notExpected)
```

## Parameters

actual [IEnumerable](#)<T>

notExpected [IEnumerable](#)<T>

## Type Parameters

T

## IsNot<T>(IEqualityComparer<T>, IEnumerable<T>, IEnumerable<T>)

Assert.AreEqual(actual.SequenceEqual(notExpected, comparer))

```
public static void IsNot<T>(this IEnumerable<T> actual, IEnumerable<T> notExpected,
IEqualityComparer<T> comparer)
```

## Parameters

actual [IEnumerable](#)<T>

notExpected [IEnumerable](#)<T>

comparer [IEqualityComparer](#)<T>

Type Parameters

T

IsNot<T>(IEnumerable<T>, IEnumerable<T>, Func<T, T, bool>)

Assert.False(actual.SequenceEqual(notExpected, comparison))

```
public static void IsNot<T>(this IEnumerable<T> actual, IEnumerable<T> notExpected, Func<T, T, bool> equalityComparison)
```

Parameters

actual [IEnumerable](#)<T>

notExpected [IEnumerable](#)<T>

equalityComparison [Func](#)<T, T, bool>

Type Parameters

T

IsNot<T>(IEnumerable<T>, params T[])

Assert.NotEqual(sequence value compare)

```
public static void IsNot<T>(this IEnumerable<T> actual, params T[] notExpected)
```

Parameters

actual [IEnumerable](#)<T>

notExpected T[]

## Type Parameters

T

### IsNot<T>(T, T)

Assert.NotEqual, if T is IEnumerable then check value equality

```
public static void IsNot<T>(this T actual, T notExpected)
```

## Parameters

actual T

notExpected T

## Type Parameters

T

### IsNot<T>(T, T, IEqualityComparer<T>)

Assert.NotEqual

```
public static void IsNot<T>(this T actual, T notExpected, IEqualityComparer<T> comparer)
```

## Parameters

actual T

notExpected T

comparer [IEqualityComparer](#)<T>

## Type Parameters

T

## IsNull<T>(T)

Assert.Null

```
public static void IsNull<T>(this T value)
```

Parameters

value T

Type Parameters

T

## IsSameReferenceAs<T>(T, T)

Assert.Same

```
public static void IsSameReferenceAs<T>(this T actual, T expected)
```

Parameters

actual T

expected T

Type Parameters

T

## IsStructuralEqual(object, object, string)

Assert by deep recursive value equality compare

```
public static void IsStructuralEqual(this object actual, object expected, string message  
= "")
```

Parameters

actual [object](#)

expected [object](#)

message [string](#)

## IsTrue(bool)

Is(true)

```
public static void IsTrue(this bool value)
```

Parameters

value [bool](#)

## Is<T>(IEnumerable<T>, IEnumerable<T>)

Assert.Equal(sequence value compare)

```
public static void Is<T>(this IEnumerable<T> actual, IEnumerable<T> expected)
```

Parameters

actual [IEnumerable](#)<T>

expected [IEnumerable](#)<T>

Type Parameters

T

## Is<T>(IEnumerable<T>, IEnumerable<T>, IEqualityComparer<T>)

Assert.True(actual.SequenceEqual(expected, comparer))

```
public static void Is<T>(this IEnumerable<T> actual, IEnumerable<T> expected,  
IEqualityComparer<T> comparer)
```

## Parameters

actual [IEnumerable](#)<T>

expected [IEnumerable](#)<T>

comparer [IEqualityComparer](#)<T>

## Type Parameters

T

# Is<T>(IEnumerable<T>, IEnumerable<T>, Func<T, T, bool>)

Assert.True(actual.SequenceEqual(expected, comparison))

```
public static void Is<T>(this IEnumerable<T> actual, IEnumerable<T> expected, Func<T, T,  
bool> equalityComparison)
```

## Parameters

actual [IEnumerable](#)<T>

expected [IEnumerable](#)<T>

equalityComparison [Func](#)<T, T, [bool](#)>

## Type Parameters

T

# Is<T>(IEnumerable<T>, params T[])

Assert.Equal(sequence value compare)

```
public static void Is<T>(this IEnumerable<T> actual, params T[] expected)
```

Parameters

actual [IEnumerable](#)<T>

expected T[]

Type Parameters

T

## Is<T>(T, Expression<Func<T, bool>>, string)

Assert.True(predicate(value))

```
public static void Is<T>(this T value, Expression<Func<T, bool>> predicate, string message
= "")
```

Parameters

value T

predicate [Expression](#)<[Func](#)<T, [bool](#)>>

message [string](#)

Type Parameters

T

## Is<T>(T, T)

Assert.Equal, if T is IEnumerable then compare value equality

```
public static void Is<T>(this T actual, T expected)
```

Parameters

**actual** T

**expected** T

Type Parameters

T

**Is<T>(T, T, IEqualityComparer<T>)**

Assert.Equal

```
public static void Is<T>(this T actual, T expected, IEqualityComparer<T> comparer)
```

Parameters

**actual** T

**expected** T

**comparer** [IEqualityComparer](#)<T>

Type Parameters

T