

Namespace Rudeus

Classes

[Constants](#)

定数を定義するクラス

[Utils](#)

ユーティリティクラス

Interfaces

[IUtils](#)

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.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

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.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

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\(object, object, string\)](#) ,
[AssertEx.IsNotNullStructuralEqual\(object, object, string\)](#).

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.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.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\(KeyEventEventArgs\)](#) ,
[Control.OnKeyPress\(KeyEventEventArgs\)](#) , [Control.OnKeyUp\(KeyEventEventArgs\)](#) ,
[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.Test

Classes

[ProgramTests](#)

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()
```

Namespace Rudeus.Launcher

Classes

[Launcher](#)

アプリの起動を行う手続き

[Program](#)

[Updater](#)

起動アプリのアップデートを行う手続き

Class Launcher

Namespace: [Rudeus.Launcher](#)

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](#)

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

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](#) ↗

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.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\(object, object, string\)](#).

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>\(T, Expression<Func<T, bool>\)](#) , [AssertEx.IsInstanceOf<T>\(object\)](#) ,
[AssertEx.IsNotInstanceOf<T>\(object\)](#) , [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>\(T, Expression<Func<T, bool>>, string\)](#) , [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.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\(object, object, string\)](#).

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.IsNotNullInstanceOf<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>\(T, Expression<Func<T, bool>>, string\)](#) , [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 RudeusBgInitializerTest

Classes

[TaskInitializerTests](#)

Class TaskInitializerTests

Namespace: [RudeusBgInitializerTest](#)

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 RudeusLibTest

Classes

[ConstantsTests](#)

[UnitTestSample](#)

[UtilsTests](#)

Class ConstantsTests

Namespace: [RudeusLibTest](#)

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: [RudeusLibTest](#)

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: [RudeusLibTest](#)

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 RudeusLibTest.API

Classes

[RemoteAPITests](#)

Class RemoteAPITests

Namespace: [RudeusLibTest.API](#)

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 RudeusLibTest.Procedure

Classes

[CertificateInstallerTests](#)

[FakeProcedureTests](#)

[RegistryInitializerTests](#)

Class CertificateInstallerTests

Namespace: [RudeusLibTest.Procedure](#)

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: [RudeusLibTest.Procedure](#)

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: [RudeusLibTest.Procedure](#)

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 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.NotEqual(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>, IEqualityComparer<T>)

Assert.False(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 IComparable 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