三 A T M O P H

Atmoph Window SDK for Unity Version 1.0

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Namespace Atmoph

Classes

BondedScope

Type for all paired Scope.

BondedScope.ScopeState

Type of Scope's state

ButtonState

Type of ButtonState

<u>ButtonStateChanged</u>

Type for ButtonState change This contains the previous and current ButtonState instances after the state has changed.

ConvertedData

Type of Scope converted data that is calculated from raw data

IntegerChanged

Type for Integer value change This contains the previous and current value after the value has changed.

RawData

Type of Scope Raw data

ScopeAddress

Type of Scope address

ScopeButton

Class to map the Scope button to the controll path. This class is set to button objects in VirtualButtons of WindowProtocol.prefab

Scopelnfo

Type of Scope static information.

ScopeOffset

Type of Scope offset Elements are similar to elements of type Converted Data.

ServiceBindState

Type for state indicating whether the service in AAR is bound or not.

Vector4f

Type of Vector4f This is used for quaternion.

<u>WindowProtocol</u>

Singleton class that serves as the base for Yo itself and Scope operations and data exchange

Class BondedScope

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type for all paired Scope.

[Serializable]
public class BondedScope

Inheritance

<u>object</u>

✓ BondedScope

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

scopes

List of Scope's state.

public List<BondedScope.ScopeState> scopes

Field Value

<u>List</u> < <u>BondedScope.ScopeState</u> >

See Also

BondedScope.ScopeState

Methods

ToString()

public override string ToString()

Returns

<u>string</u> ☑

Class BondedScope.ScopeState

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type of Scope's state

```
[Serializable]
public class BondedScope.ScopeState
```

Inheritance

<u>object</u>

← BondedScope.ScopeState

Inherited Members

<u>object.Equals(object)</u> , <u>object.Equals(object, object)</u> , <u>object.GetHashCode()</u> , <u>object.GetType()</u> , <u>object.MemberwiseClone()</u> , <u>object.ReferenceEquals(object, object)</u>

Fields

address

String of Scope address

public string address

Field Value

state

Whether the service in AAR is bound or not. true: Bound false: Not bound

public bool state

Field Value

Methods

ToString()

public override string ToString()

Returns

Class ButtonState

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Type of ButtonState

```
[Serializable]
public class ButtonState
```

Inheritance

<u>object</u> < ButtonState

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

down

Whether "Down" button is pressed or not. 1: Pressed 0: Not pressed

```
public int down
```

Field Value

int₫

left

Whether "Left" button is pressed or not. 1: Pressed 0: Not pressed

```
public int left
```

Field Value

main

Whether "Main" button is pressed or not. 1: Pressed 0: Not pressed

```
public int main
```

Field Value

<u>int</u> ☑

menu

Whether "Menu" button is pressed or not. 1: Pressed 0: Not pressed

```
public int menu
```

Field Value

<u>int</u>♂

power

Whether "Power" button is pressed or not. 1: Pressed 0: Not pressed

```
public int power
```

Field Value

<u>int</u>♂

right

Whether "Right" button is pressed or not. 1: Pressed 0: Not pressed

```
public int right
```

Field Value

<u>int</u>♂

trigger

Whether "Trigger" button is pressed or not. 1: Pressed 0: Not pressed

```
public int trigger
```

Field Value

<u>int</u>♂

up

Whether "Up" button is pressed or not. 1: Pressed 0: Not pressed

```
public int up
```

Field Value

int₫

value

Bitmap for all buttons. The order of the following elements indicates whether or not each button is pressed, and this is stored as a bit. (If it is pressed, it is 1.)

```
public int value
```

Field Value

view

Whether "View" button is pressed or not. 1: Pressed 0: Not pressed

public int view

Field Value

<u>int</u>♂

Methods

ToString()

public override string ToString()

Returns

Class ButtonStateChanged

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type for ButtonState change This contains the previous and current ButtonState instances after the state has changed.

```
[Serializable]
public class ButtonStateChanged
```

Inheritance

<u>object</u> < ButtonStateChanged

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \underline{object.MemberwiseClone()} \ \ \ \underline{object.MemberwiseClone()} \ \ \underline{object.M$

Fields

address

String of Scope address

public string address

Field Value

 \underline{string}

current

Current ButtonState instances

public ButtonState current

Field Value

ButtonState

See Also

ButtonState

previous

Previous ButtonState instances

public ButtonState previous

Field Value

ButtonState

See Also

ButtonState

Methods

ToString()

public override string ToString()

Returns

Class Converted Data

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Type of Scope converted data that is calculated from raw data

```
[Serializable]
public class ConvertedData
```

Inheritance

<u>object</u>

← Converted Data

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

address

String of Scope address.

public string address

Field Value

<u>string</u> □

See Also

ScopeAddress

distance

Destance from Scope distance sensor to obstacles Unit is mm

```
public float distance
```

Field Value

<u>float</u>♂

pitch

Pitch degree of scope orientation

```
public float pitch
```

Field Value

<u>float</u> ♂

roll

Roll degree of scope orientation

```
public float roll
```

Field Value

<u>float</u> ♂

Χ

X-axis value of pointing position on the Yo screen 0.0~1080.0

```
public float x
```

Field Value

<u>float</u> ♂

Y-axis value of pointing position on the Yo screen 0.0~1920.0

```
public float y
```

Field Value

<u>float</u> ♂

yaw

Yaw degree of scope orientation

```
public float yaw
```

Field Value

<u>float</u> ♂

Methods

ToString()

public override string ToString()

Returns

See Also

RawData

Class IntegerChanged

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type for Integer value change This contains the previous and current value after the value has changed.

```
[Serializable]
public class IntegerChanged
```

Inheritance

<u>object</u> < IntegerChanged

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

address

String of Scope address

public string address

Field Value

current

Current int value

public int current

Field Value

previous

Previous int value

public int previous

Field Value

<u>int</u>♂

Methods

ToString()

public override string ToString()

Returns

Class RawData

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type of Scope Raw data

```
[Serializable]
public class RawData
```

Inheritance

<u>object</u>

✓ RawData

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

address

String of Scope address.

public string address

Field Value

<u>string</u> □

See Also

ScopeAddress

button

Button state of Scope.

public ButtonState button

Field Value

ButtonState

See Also

<u>OnButtonsStateChanged(string</u>

☑)

quaternion

Quaternion for scope orientation

public Vector4f quaternion

Field Value

Vector4f

zoom

Value of Scope Zoom ring. Clockwise rotation increases value.

public int zoom

Field Value

<u>int</u>♂

See Also

<u>OnEncoderValueChanged(string</u> ☑)

Methods

ToString()

public override string ToString()

Returns

Class ScopeAddress

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type of Scope address

```
[Serializable]
public class ScopeAddress
```

Inheritance

<u>object</u>
 ← ScopeAddress

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

address

String of Scope address

public string address

Field Value

Methods

ToString()

public override string ToString()

Class ScopeButton

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Class to map the Scope button to the controll path. This class is set to button objects in VirtualButtons of WindowProtocol.prefab

```
public class ScopeButton : OnScreenControl
```

Component.GetComponentsInParent<T>(bool) ♂,

Inheritance

<u>object</u> ♂ ← <u>Object</u> ♂ ← <u>Component</u> ♂ ← <u>Behaviour</u> ♂ ← <u>MonoBehaviour</u> ♂ ← OnScreenControl ← ScopeButton

Inherited Members

```
OnScreenControl.SendValueToControl<TValue>(TValue), OnScreenControl.SentDefaultValueToControl(),
OnScreenControl.OnEnable(), OnScreenControl.OnDisable(), OnScreenControl.controlPath,
OnScreenControl.control, MonoBehaviour.lsInvoking(), MonoBehaviour.CancelInvoke() ,
MonoBehaviour.Invoke(string, float) ♂, MonoBehaviour.InvokeRepeating(string, float, float) ♂,
MonoBehaviour.Cancellnvoke(string) ☑, MonoBehaviour.IsInvoking(string) ☑,
MonoBehaviour.StartCoroutine(string) □, MonoBehaviour.StartCoroutine(string, object) □,
MonoBehaviour.StartCoroutine(IEnumerator) ☑, MonoBehaviour.StartCoroutine Auto(IEnumerator) ☑,
MonoBehaviour.StopCoroutine(IEnumerator)  

✓ , MonoBehaviour.StopCoroutine(Coroutine) ,
MonoBehaviour.StopCoroutine(string) <a>d</a>, MonoBehaviour.StopAllCoroutines(),
MonoBehaviour.print(object) ☑, MonoBehaviour.destroyCancellationToken ☑,
MonoBehaviour.useGUILayout ☑, MonoBehaviour.didStart ☑, MonoBehaviour.didAwake ☑,
MonoBehaviour.runInEditMode, <u>Behaviour.enabled</u> ♂, <u>Behaviour.isActiveAndEnabled</u> ♂,
Component.GetComponent(Type) <a>r/>
</a> , Component.GetComponent<<a>r/>
<a>r</a>>) ,
<u>Component.TryGetComponent(Type, out Component)</u> ♂, <u>Component.TryGetComponent<T>(out T)</u> ♂,
<u>Component.GetComponent(string)</u> ∠, <u>Component.GetComponentInChildren(Type, bool)</u> ∠,
Component.GetComponentInChildren(Type) der , Component.GetComponentInChildren<T>(bool) der ,
Component.GetComponentInChildren<T>(), Component.GetComponentsInChildren(Type, bool) ,
<u>ComponentsInChildren(Type)</u> ☑, <u>ComponentsInChildren<T>(bool)</u> ☑,
<u>Component.GetComponentsInChildren<T>(bool, List<T>)</u> ✓,
Component.GetComponentsInChildren<T>(), Component.GetComponentsInChildren<T>(List<T>) \( \text{\text{$\subset$}} \) ,
Component.GetComponentInParent(Type, bool) dollar , Component.GetComponentInParent(Type) dollar ,
Component.GetComponentInParent<T>(bool) □ , Component.GetComponentInParent<T>() □ ,
Component.GetComponentsInParent(Type, bool) dollar , Component.GetComponentsInParent(Type) dollar ,
```

```
<u>Component.GetComponentsInParent<T>(bool, List<T>)</u> ✓, Component.GetComponentsInParent<T>(),
Components(Type) ☑, Components(Type, List < Component>) ☑,
Component.GetComponents<T>(List<T>)□ , Component.GetComponents<T>()□ ,
Component.GetComponentIndex(), Component.CompareTag(string) ,
Component.CompareTag(TagHandle) ≥ ,
Component.SendMessageUpwards(string, object, SendMessageOptions) ♂,
Component.SendMessageUpwards(string, object) ♂, Component.SendMessageUpwards(string) ♂,
Component.SendMessageUpwards(string, SendMessageOptions) ☑,
Component.SendMessage(string, object) ♂, Component.SendMessage(string) ♂,
Component.SendMessage(string, object, SendMessageOptions) ♂,
Component.SendMessage(string, SendMessageOptions) ♂,
<u>Component.BroadcastMessage(string, object, SendMessageOptions)</u> ✓,
Component.BroadcastMessage(string, object) ♂, Component.BroadcastMessage(string) ♂,
Component.BroadcastMessage(string, SendMessageOptions) 

✓ , Component.transform ,
Component.gameObject, Component.tag, Object.GetInstanceID() , Object.GetHashCode() ,
Object.Equals(object)  

✓ , Object.InstantiateAsync<T>(T) , Object.InstantiateAsync<T>(T, Transform) ,
Object.InstantiateAsync<T>(T, Vector3, Quaternion),
Object.InstantiateAsync<T>(T, Transform, Vector3, Quaternion), Object.InstantiateAsync<T>(T, int) ,
Object.InstantiateAsync<T>(T, int, Transform) ♂,
Object.InstantiateAsync<T>(T, int, Vector3, Quaternion) ♂,
Object.InstantiateAsync<T>(T, int, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>) ,
Object.InstantiateAsync<T>(T, int, Transform, Vector3, Quaternion) d.,
Object.InstantiateAsync<T>(T, int, Transform, Vector3, Quaternion, CancellationToken) ♂,
Object.InstantiateAsync<T>(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>) ,
Object.InstantiateAsync<T>(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>,
<u>CancellationToken</u>) □ ,
Object.InstantiateAsync<T>(T, InstantiateParameters, CancellationToken) □,
Object.InstantiateAsync<T>(T, int, InstantiateParameters, CancellationToken) ♂,
Object.InstantiateAsync<T>(T, Vector3, Quaternion, InstantiateParameters, CancellationToken) ,
Object.InstantiateAsync<T>(T, int, Vector3, Quaternion, InstantiateParameters, CancellationToken) ♂,
Object.InstantiateAsync<T>(T, int, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>,
InstantiateParameters, CancellationToken) <a>™</a> ,
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform) d , Object.Instantiate(Object) ,
Object.Instantiate(Object, Scene) ✓, Object.Instantiate < T > (T, InstantiateParameters),
Object.Instantiate<T>(T, Vector3, Quaternion, InstantiateParameters),
Object.Instantiate(Object, Transform), Object.Instantiate(Object, Transform, bool) ♂,
Object.Instantiate<T>(T), Object.Instantiate<T>(T, Vector3, Quaternion),
Object.Instantiate<T>(T, Vector3, Quaternion, Transform), Object.Instantiate<T>(T, Transform),
Object.Instantiate < T > (T, Transform, bool) □, Object.Destroy(Object, float) □, Object.Destroy(Object),
```

```
Object.DestroyImmediate(Object, bool) , Object.DestroyImmediate(Object),
Object.FindObjectsOfType(Type) decision , Object.FindObjectsOfType(Type, bool) decision , Object.FindObjectsOfType(Type, bool)
Object.FindObjectsByType(Type, FindObjectsSortMode) ,
<u>ObjectsFindObjectsByType(Type, FindObjectsInactive, FindObjectsSortMode)</u> ✓ ,
Object.DontDestroyOnLoad(Object) , Object.DestroyObject(Object, float) ,
Object.DestroyObject(Object), Object.FindSceneObjectsOfType(Type),
Object.FindObjectsOfTypeIncludingAssets(Type) ♂, Object.FindObjectsOfType<T>(),
Object.FindObjectsByType<T>(FindObjectsSortMode)  , Object.FindObjectsOfType<T>(bool)  ,
Object.FindObjectsByType<T>(FindObjectsInactive, FindObjectsSortMode) \( \text{\text{$\sigma}} \) ,
Object.FindObjectOfType<T>() d , Object.FindObjectOfType<T>(bool) d ,
Object.FindFirstObjectByType<T>() d , Object.FindAnyObjectByType<T>() d ,
Object.FindFirstObjectByType<T>(FindObjectsInactive) ♂,
Object.FindAnyObjectByType<T>(FindObjectsInactive) □ , Object.FindObjectsOfTypeAll(Type) □ ,
Object.FindObjectOfType(Type) ♂, Object.FindFirstObjectByType(Type) ♂,
<u>Object.FindAnyObjectByType(Type)</u> 

☐ , <u>Object.FindObjectOfType(Type, bool)</u> 
☐ ,
Object.FindFirstObjectByType(Type, FindObjectsInactive) ,
Object.FindAnyObjectByType(Type, FindObjectsInactive) , Object.ToString() , Object.name ,
Object.hideFlags, object.Equals(object, object) ♂, object.GetType() ♂, object.MemberwiseClone() ♂,
object.ReferenceEquals(object, object). □
```

Properties

controlPathInternal

```
protected override string controlPathInternal { get; set; }
Property Value
```

Methods

OnPressed()

Call back method that is called when the button is pressed

```
public void OnPressed()
```

OnReleased()

Call back method that is called when the button is released

public void OnReleased()

Class ScopeInfo

Namespace: <u>Atmoph</u>

Assembly: Assembly-CSharp.dll

Type of Scope static information.

```
[Serializable]
public class ScopeInfo
```

Inheritance

<u>object</u> < Copelnfo

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

firmwareRev

String of firmware revision in software revision

```
public string firmwareRev
```

Field Value

hardwareRev

String of hardware revision

```
public string hardwareRev
```

Field Value

manufacturer

String of manufacturer

public string manufacturer

Field Value

modelNumber

String of model number

public string modelNumber

Field Value

pnpld

String of PNP ID�iPlug and Play ID�j

public string pnpId

Field Value

serialNumber

String of serial number

```
public string serialNumber
```

Field Value

<u>string</u> □

softwareRev

String of application revision in software revision

public string softwareRev

Field Value

Methods

ToString()

public override string ToString()

Returns

<u>string</u> ☑

Class ScopeOffset

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Type of Scope offset Elements are similar to elements of type ConvertedData.

```
[Serializable]
public class ScopeOffset
```

Inheritance

<u>object</u>

✓ ScopeOffset

Inherited Members

<u>object.Equals(object)</u> ♂, <u>object.Equals(object, object)</u> ♂, <u>object.GetHashCode()</u> ♂, <u>object.GetType()</u> ♂, <u>object.MemberwiseClone()</u> ♂, <u>object.ReferenceEquals(object, object)</u> ♂

Fields

address

String of Scope address.

public string address

Field Value

See Also

ScopeAddress

byUser

Whether reset is performed by user or not 0.0~1080.0

```
public bool byUser
```

Field Value

<u>bool</u> ♂

pitch

Pitch degree of scope orientation

```
public float pitch
```

Field Value

<u>float</u> ♂

roll

Roll degree of scope orientation

```
public float roll
```

Field Value

<u>float</u> ♂

Χ

X-axis value of pointing position on the Yo screen 0.0~1080.0

```
public float x
```

Field Value

<u>float</u> ♂

У

Y-axis value of pointing position on the Yo screen 0.0~1920.0

```
public float y
```

Field Value

<u>float</u> ♂

yaw

Yaw degree of scope orientation

```
public float yaw
```

Field Value

<u>float</u> ♂

Methods

ToString()

public override string ToString()

Returns

See Also

ConvertedData

Class ServiceBindState

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Type for state indicating whether the service in AAR is bound or not.

```
[Serializable]
public class ServiceBindState
```

Inheritance

<u>object</u>

✓ ServiceBindState

Inherited Members

 $\underline{object.Equals(object)} \ \ \ \ \ \underline{object.Equals(object, object)} \ \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \ \underline{object.MemberwiseClone()} \ \ \ \ \underline{object.ReferenceEquals(object, object)} \ \ \ \underline{object.MemberwiseClone()} \ \ \ \underline{object.MemberwiseClone()} \ \ \underline{object.M$

Fields

state

Whether the service in AAR is bound or not, true: Bound false: Not bound

```
public bool state
```

Field Value

Methods

ToString()

```
public override string ToString()
```

Class Vector4f

Field Value

<u>float</u> ☑

Namespace: <u>Atmoph</u> Assembly: Assembly-CSharp.dll Type of Vector4f This is used for quaternion. [Serializable] public class Vector4f Inheritance <u>object</u>

✓ Vector4f **Inherited Members** object.Equals(object) ♂, object.Equals(object, object) ♂, object.GetHashCode() ♂, object.GetType() ♂, **Fields** W public float w Field Value <u>float</u> ☑ Χ public float x

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```
У
 public float y
Field Value
<u>float</u>♂
Z
 public float z
Field Value
<u>float</u> ♂
Methods
ToString()
 public override string ToString()
Returns
See Also
```

quaternion

Class WindowProtocol

Namespace: Atmoph

Assembly: Assembly-CSharp.dll

Singleton class that serves as the base for Yo itself and Scope operations and data exchange

```
public class WindowProtocol : MonoBehaviour
```

Inheritance

```
<u>object</u> ♂ ← <u>Object</u> ♂ ← <u>Component</u> ♂ ← <u>Behaviour</u> ♂ ← <u>MonoBehaviour</u> ♂ ← WindowProtocol
```

Inherited Members

```
MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke() ♂, MonoBehaviour.Invoke(string, float) ♂,
MonoBehaviour.InvokeRepeating(string, float, float) delta, MonoBehaviour.CancelInvoke(string) delta, MonoBehaviour.CancelInvoke(string) delta, float, float
MonoBehaviour.IsInvoking(string) □, MonoBehaviour.StartCoroutine(string) □,
MonoBehaviour.StartCoroutine(string, object) ✓, MonoBehaviour.StartCoroutine(IEnumerator) ✓,
MonoBehaviour.StartCoroutine Auto(IEnumerator)  

✓ , MonoBehaviour.StopCoroutine(IEnumerator)  

✓ ,
MonoBehaviour.StopCoroutine(Coroutine), MonoBehaviour.StopCoroutine(string) ♂,
MonoBehaviour.StopAllCoroutines(), MonoBehaviour.print(object) ☑,
MonoBehaviour.destroyCancellationToken ♂, MonoBehaviour.useGUILayout ♂,
Behaviour.enabled ♂, Behaviour.isActiveAndEnabled ♂, Component.GetComponent(Type) ♂,
Component.GetComponent<T>(), Component.TryGetComponent(Type, out Component) □,
Component.TryGetComponent<T>(out T) ☑, Component.GetComponent(string) ☑,
<u>Component.GetComponentInChildren(Type, bool)</u> dollows , <u>Component.GetComponentInChildren(Type)</u> dollows ,
Component.GetComponentInChildren<T>(bool) ☑, Component.GetComponentInChildren<T>(),
Component.GetComponentsInChildren(Type, bool) ✓, Component.GetComponentsInChildren(Type) ✓,
Component.GetComponentsInChildren<T>(bool) ♂,
<u>Component.GetComponentsInChildren<T>(bool, List<T>)</u> □ ,
Component.GetComponentsInChildren<T>(), Component.GetComponentsInChildren<T>(List<T>) \( \text{\text{$\sigma}} \) ,
Component.GetComponentInParent(Type, bool) decided , Component.GetComponentInParent(Type) decided ,
Component.GetComponentInParent<T>(bool) □ , Component.GetComponentInParent<T>() □ ,
<u>Component.GetComponentsInParent(Type, bool)</u> ✓, <u>Component.GetComponentsInParent(Type)</u> ✓,
Component.GetComponentsInParent<T>(bool) ♂,
<u>Component.GetComponentsInParent<T>(bool, List<T>)</u> ✓, Component.GetComponentsInParent<T>(),
<u>Component.GetComponents(Type)</u> ✓, <u>Component.GetComponents(Type, List<Component>)</u> ✓,
Component.GetComponents<T>(List<math><T>)\square, Component.GetComponents<T>()\square,
Component.GetComponentIndex(), Component.CompareTag(string) ✓,
```

```
Component.CompareTag(TagHandle) ≥ ,
Component.SendMessageUpwards(string, object, SendMessageOptions) ,
Component.SendMessageUpwards(string, object) ♂, Component.SendMessageUpwards(string) ♂,
Component.SendMessageUpwards(string, SendMessageOptions) ♂,
Component.SendMessage(string, object) ♂, Component.SendMessage(string) ♂,
Component.SendMessage(string, object, SendMessageOptions) □,
Component.SendMessage(string, SendMessageOptions) ♂,
Component.BroadcastMessage(string, object) ♂, Component.BroadcastMessage(string) ♂,
Component.BroadcastMessage(string, SendMessageOptions) 

✓ , Component.transform ,
Component.gameObject, Component.tag, Object.GetInstanceID() , Object.GetHashCode() ,
Object.Equals(object) ✓, Object.InstantiateAsync<T>(T), Object.InstantiateAsync<T>(T, Transform),
Object.InstantiateAsync<T>(T, Vector3, Quaternion),
Object.InstantiateAsync<T>(T, Transform, Vector3, Quaternion), Object.InstantiateAsync<T>(T, int) ,
Object.InstantiateAsync<T>(T, int, Transform) ♂,
Object.InstantiateAsync<T>(T, int, Vector3, Quaternion) ♂,
Object.InstantiateAsync<T>(T, int, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>) ,
Object.InstantiateAsync<T>(T, int, Transform, Vector3, Quaternion) ♂,
Object.InstantiateAsync<T>(T, int, Transform, Vector3, Quaternion, CancellationToken) ☑,
Object.InstantiateAsync<T>(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>) ,
Object.InstantiateAsync<T>(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>,
CancellationToken) □ ,
Object.InstantiateAsync<T>(T, InstantiateParameters, CancellationToken) ♂,
Object.InstantiateAsync<T>(T, int, InstantiateParameters, CancellationToken) □,
Object.InstantiateAsync<T>(T, Vector3, Quaternion, InstantiateParameters, CancellationToken) ,
Object.InstantiateAsync<T>(T, int, Vector3, Quaternion, InstantiateParameters, CancellationToken) ☑,
Object.InstantiateAsync<T>(T, int, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>,
InstantiateParameters, CancellationToken) ♂,
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform) . Object.Instantiate(Object),
Object.Instantiate(Object, Scene) ✓, Object.Instantiate < T > (T, InstantiateParameters),
Object.Instantiate<T>(T, Vector3, Quaternion, InstantiateParameters),
Object.Instantiate(Object, Transform), Object.Instantiate(Object, Transform, bool) ,
Object.Instantiate<T>(T), Object.Instantiate<T>(T, Vector3, Quaternion),
Object.Instantiate<T>(T, Vector3, Quaternion, Transform), Object.Instantiate<T>(T, Transform),
Object.Instantiate < T > (T, Transform, bool) □, Object.Destroy(Object, float) □, Object.Destroy(Object),
Object.DestroyImmediate(Object, bool) . Object.DestroyImmediate(Object),
Object.FindObjectsOfType(Type) □ , Object.FindObjectsOfType(Type, bool) □ ,
Object.FindObjectsByType(Type, FindObjectsInactive, FindObjectsSortMode) ,
```

```
Object.DontDestroyOnLoad(Object) , Object.DestroyObject(Object, float) , Object.DestroyObject(Object) , Object.FindSceneObjectsOfType(Type) , Object.FindObjectsOfTypeIncludingAssets(Type) , Object.FindObjectsOfType<T>() , Object.FindObjectsByType<T>(FindObjectsSortMode) , Object.FindObjectsOfType<T>(bool) , Object.FindObjectsByType<T>(FindObjectsSortMode) , Object.FindObjectsSortMode) , Object.FindObjectsByType<T>(bool) , Object.FindObjectSOfType<T>(bool) , Object.FindObjectOfType<T>(bool) , Object.FindObjectByType<T>() , Object.FindObjectByType<T>() , Object.FindAnyObjectByType<T>() , Object.FindAnyObjectByType<T>() , Object.FindObjectByType<T>() , Object.FindObjectSofTypeAll(Type) , Object.FindObjectSofTypeAll(Type) , Object.FindObjectSofType(Type) , Object.FindObjectByType(Type) , Object.FindObjectByType(Type) , Object.FindObjectByType(Type, FindObjectSofType(Type, bool) , Object.FindAnyObjectByType(Type, FindObjectsInactive) , Object.ToString() , Object.name , Object.FindAnyObjectByType(Type, FindObjectsInactive) , Object.ToString() , Object.name , Object.ReferenceEquals(object, object, object) , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object, object) .
```

Fields

On Connection State Change d Event

UnityEvent that is fired when scope connection states are changed.

```
public UnityEvent OnConnectionStateChangedEvent
```

Field Value

Properties

Instance

Return the instance of WindowProtocol

```
public static WindowProtocol Instance { get; }
```

Property Value

IsServiceBound

Whether the service in AAR is bound or not. Before service is bound, calling the following methods will be ignore: Vibrate(string[], int) VibrateToAll(int) GetScopes() GetScopeInfo(string) GetBatteryLevel(string)

```
public bool IsServiceBound { get; }
```

Property Value

bool₫

See Also

OnServiceBindStateChanged(string), Vibrate(string[], int), VibrateToAll(int), GetScopes(), GetScopeInfo(string), GetBatteryLevel(string)

ScopeConnectionState

Dictionary of scope connection state at that point in time. Key: Scope address Value: Connection state (true: connected, false: not connected)

```
public IReadOnlyDictionary<string, bool> ScopeConnectionState { get; }
```

Property Value

<u>IReadOnlyDictionary</u> ♂ < <u>string</u> ♂, <u>bool</u> ♂ >

ScopeConvertedData

Dictionary of scope converted data at that point in time. Key: Scope address Value: Converted Data

```
public IReadOnlyDictionary<string, ConvertedData > ScopeConvertedData { get; }
```

Property Value

<u>IReadOnlyDictionary</u> < <u>string</u> < , <u>ConvertedData</u>>

ScopeOffset

Dictionary of scope converted offset converted data at that point in time. Key: Scope address Value: Converted offset data

```
public IReadOnlyDictionary<string, ConvertedData> ScopeOffset { get; }
```

Property Value

<u>IReadOnlyDictionary</u> < < string < , ConvertedData >

ScopeRawData

Dictionary of scope raw data at that point in time. Key: Scope address Value: Raw data

```
public IReadOnlyDictionary<string, RawData> ScopeRawData { get; }
```

Property Value

<u>IReadOnlyDictionary</u> ♂ < <u>string</u> ♂, <u>RawData</u>>

ScopeRawOffset

Dictionary of scope offset raw data at that point in time. Key: Scope address Value: Raw offset data

```
public IReadOnlyDictionary<string, RawData> ScopeRawOffset { get; }
```

Property Value

<u>IReadOnlyDictionary</u> < <u>string</u> < , <u>RawData</u>>

Methods

GetBatteryLevel(string)

```
public virtual int GetBatteryLevel(string targetAddress)
```

Parameters

targetAddress <u>string</u>♂

Target Scope's address

Returns

<u>int</u>♂

Battery leve value. The value is the ratio of the remaining battery charge to the full charge and is a percentage value from 0 to 100.

See Also

OnBatteryLevelChanged(string)

GetScopeInfo(string)

Get Scope's static information

public virtual ScopeInfo GetScopeInfo(string targetAddress)

Parameters

targetAddress <u>string</u>♂

Returns

<u>ScopeInfo</u>

Scopelnfo instance that contains Scope's static information.

GetScopes()

Get all paired Scopes.

```
public virtual BondedScope GetScopes()
```

Returns

BondedScope

BondedScope instance that contains all paired Scope's information.

GoBackToWindow()

Go back to Atmoph Window.

```
public virtual void GoBackToWindow()
```

Remarks

This method performs just going back to Yo OS. Please handle the termination of the application yourself.

OnBatteryLevelChanged(string)

Callback method called when scope battery level is changed. The value is the ratio of the remaining battery charge to the full charge and is a percentage value from 0 to 100.

```
protected virtual void OnBatteryLevelChanged(string data)
```

Parameters

data <u>string</u> ♂

Json text serialized with IntegerChanged type information

OnButtonsStateChanged(string)

Callback method called when scope button state is changed (pressed or released).

```
protected virtual void OnButtonsStateChanged(string data)
```

Parameters

data <u>string</u> ♂

Json text serialized with ButtonStateChanged type information

OnConnected(string)

Callback method called when Scope is connected

protected virtual void OnConnected(string data)

Parameters

data <u>string</u> ♂

Json text serialized with ScopeAddress type information

OnDataConverted(string)

protected virtual void OnDataConverted(string data)

Parameters

data <u>string</u> ♂

OnDisconnected(string)

Callback method called when Scope is diconnected

protected virtual void OnDisconnected(string data)

Parameters

data <u>string</u> ♂

Json text serialized with ScopeAddress type information

OnEncoderValueChanged(string)

Callback method called when scope zoom ring value is changed. Clockwise rotation increases value.

protected virtual void OnEncoderValueChanged(string data)

Parameters

data <u>string</u> ☑

Json text serialized with IntegerChanged type information

OnInitialized(string)

Callback method called when Scope is connected. This is called once after the scope is connected.

protected virtual void OnInitialized(string data)

Parameters

data <u>string</u> ♂

Json text serialized with ScopeAddress type information

OnOffsetReset(string)

Callback method called when scope pointing position is reset.

protected virtual void OnOffsetReset(string data)

Parameters

data <u>string</u> ☑

OnRawData(string)

Callback method called when scope send new data.

protected virtual void OnRawData(string data)

Parameters

data <u>string</u> ♂

Json text serialized with RawData type information

OnServiceBindStateChanged(string)

Callback method called when the service in AAR is bound or unbound. Before service is bound, calling the following methods will be ignore: Vibrate(string[], int) VibrateToAll(int) GetScopes()
GetScopeInfo(string) GetBatteryLevel(string)

protected virtual void OnServiceBindStateChanged(string data)

Parameters

data <u>string</u> ☑

Json text serialized with ServiceBindState type information

See Also

OnServiceBindStateChanged(string), Vibrate(string[], int), VibrateToAll(int), GetScopes(), GetScopeInfo(string), GetBatteryLevel(string)

OnSignalTargetSet(string)

Callback method called when the service in AAR set signal target.

protected virtual void OnSignalTargetSet(string data)

Parameters

```
data <u>string</u>♂
```

Signal Target Name

Vibrate(string[], int)

Vibrate Scope with the selected pattern.

```
public virtual void Vibrate(string[] targetAddress, int pattern)
```

Parameters

```
targetAddress <u>string</u>♂[]
```

Target Scope's addresses

pattern <u>int</u>♂

Vibration pattern.1 ~ 123

VibrateToAll(int)

```
public virtual void VibrateToAll(int pattern)
```

Parameters

pattern <u>int</u>♂