

Namespace ProposedArchitecture

Classes

[Common](#)

Manager hub

[GlobalProperties](#)

Stores global game values and constants

[Inventory](#)

[Player](#)

[SaveManager](#)

Responsible for handling the SnapshotWrapper, ISnapshot and ISnapshotModel instances. Hands out SMRIs.

[Weapon](#)

[WorldLoader](#)

Handles the world creation and order of SMRIs simultaneously.

Structs

[SInventory](#)

[SPlayer](#)

[SWeapon](#)

Interfaces

[ISnapshot](#)

Marks a class as ISnapshot-able

[ISnapshotModel](#)

Class Common

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

Manager hub

```
[DefaultExecutionOrder(-500)]  
public class Common : MonoBehaviour
```

Inheritance

[object](#) ← Object ← Component ← Behaviour ← MonoBehaviour ← Common

Inherited Members

MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke(), [MonoBehaviour.Invoke\(string, float\)](#), [MonoBehaviour.InvokeRepeating\(string, float, float\)](#), [MonoBehaviour.CancelInvoke\(string\)](#), [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\(string\)](#), MonoBehaviour.StopAllCoroutines(), [MonoBehaviour.print\(object\)](#), MonoBehaviour.destroyCancellationToken, MonoBehaviour.useGUILayout, MonoBehaviour.runInEditMode, Behaviour.enabled, Behaviour.isActiveAndEnabled, [Component.GetComponent\(Type\)](#), Component.GetComponent<T>(), [Component.TryGetComponent\(Type, out Component\)](#), Component.TryGetComponent<T>(out T), [Component.GetComponent\(string\)](#), [Component.GetComponentInChildren\(Type, bool\)](#), [Component.GetComponentInChildren\(Type\)](#), [Component.GetComponentInChildren<T>\(bool\)](#), Component.GetComponentInChildren<T>(), [Component.GetComponentInChildren\(Type, bool\)](#), [Component.GetComponentInChildren\(Type\)](#), [Component.GetComponentInChildren<T>\(bool\)](#), [Component.GetComponentInChildren<T>\(bool, List<T>\)](#), Component.GetComponentInChildren<T>(), [Component.GetComponentInChildren<T>\(List<T>\)](#), [Component.GetComponentInParent\(Type, bool\)](#), [Component.GetComponentInParent\(Type\)](#), [Component.GetComponentInParent<T>\(bool\)](#), Component.GetComponentInParent<T>(), [Component.GetComponentInParent\(Type, bool\)](#), [Component.GetComponentInParent\(Type\)](#), [Component.GetComponentInParent<T>\(bool\)](#), [Component.GetComponentInParent<T>\(bool, List<T>\)](#), Component.GetComponentInParent<T>(), [Component.GetComponentInParent\(Type, List<Component>\)](#), [Component.GetComponentInParent<T>\(List<T>\)](#), Component.GetComponentInParent<T>(), Component.GetComponentIndex(), [Component.CompareTag\(string\)](#),

[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\(string, object, SendMessageOptions\)](#),
[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>\(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>\)](#),
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform), Object.Instantiate(Object),
Object.Instantiate(Object, Scene), 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\(Type, FindObjectsSortMode\)](#),
[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>(FindObjectsInactive, FindObjectsSortMode),
Object.FindObjectOfType<T>(), [Object.FindObjectOfType<T>\(bool\)](#),
Object.FindFirstObjectByType<T>(), Object.FindAnyObjectByType<T>(),
Object.FindFirstObjectByType<T>(FindObjectsInactive),
Object.FindAnyObjectByType<T>(FindObjectsInactive), [Object.FindObjectsOfTypeAll\(Type\)](#),
[Object.FindObjectOfType\(Type\)](#), [Object.FindFirstObjectByType\(Type\)](#),
[Object.FindAnyObjectByType\(Type\)](#), [Object.FindObjectOfType\(Type, bool\)](#),

[Object.FindFirstObjectByType\(Type, FindObjectsInactive\)](#) ,
[Object.FindAnyObjectByType\(Type, FindObjectsInactive\)](#) , [Object.ToString\(\)](#) , [Object.name](#) ,
[Object.hideFlags](#) , [object.Equals\(object, object\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) ,
[object.ReferenceEquals\(object, object\)](#)

Fields

Instance

Returns the Common singleton

```
public static Common Instance
```

Field Value

[Common](#)

Properties

SaveManager

Returns the SaveManager reference

```
public SaveManager SaveManager { get; }
```

Property Value

[SaveManager](#)

WorldLoader

Returns the WorldLoader reference

```
public WorldLoader WorldLoader { get; }
```

Property Value

Class GlobalProperties


Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

Stores global game values and constants

```
public static class GlobalProperties
```

Inheritance

[object](#)  ← GlobalProperties

Inherited Members

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

Fields

SaveFolderName

The save folder name.

```
public const string SaveFolderName = "SnapshotSaves"
```

Field Value

[string](#) 

SavePath

The save directory absolute path

```
public static readonly string SavePath
```

Field Value

Interface ISnapshot

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

Marks a class as ISnapshot-able

```
public interface ISnapshot
```

Properties

Smri

The class should have an SMRI field

```
uint Smri { get; }
```

Property Value

[uint](#)

Methods

CacheModel()

```
void CacheModel()
```

ConstructModel()

```
ISnapshotModel ConstructModel()
```

Returns

[ISnapshotModel](#)

GetSnapshotModelType()

Type `GetSnapshotModelType()`

Returns

[Type](#)

LoadModel(ISnapshotModel)

`void LoadModel(ISnapshotModel _model)`

Parameters

`_model` [ISnapshotModel](#)

RegisterToSaveManager()

`void RegisterToSaveManager()`

RetrieveReferences(int[])

`void RetrieveReferences(int[] _refSmris)`

Parameters

`_refSmris` [int](#)[]

UnregisterToSaveManager()

```
void UnregisterToSaveManager()
```

Interface ISnapshotModel

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
public interface ISnapshotModel
```

Properties

RefSmris

The class/struct should have an int array to store its references SMRIs

```
int[] RefSmris { get; set; }
```

Property Value

[int](#)  []

Smri

The class/struct should have an SMRI field

```
uint Smri { get; set; }
```

Property Value

[uint](#) 


Class Inventory

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
public class Inventory : MonoBehaviour, ISnapshot
```

Inheritance

[object](#)  ← Object ← Component ← Behaviour ← MonoBehaviour ← Inventory

Implements

[ISnapshot](#)

Inherited Members

MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke(), [MonoBehaviour.Invoke\(string, float\)](#) , [MonoBehaviour.InvokeRepeating\(string, float, float\)](#) , [MonoBehaviour.CancelInvoke\(string\)](#) , [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\(string\)](#) , MonoBehaviour.StopAllCoroutines(), [MonoBehaviour.print\(object\)](#) , MonoBehaviour.destroyCancellationToken, MonoBehaviour.useGUILayout, MonoBehaviour.runInEditMode, Behaviour.enabled, Behaviour.isActiveAndEnabled, [Component.GetComponent\(Type\)](#) , Component.GetComponent<T>(), [Component.TryGetComponent\(Type, out Component\)](#) , Component.TryGetComponent<T>(out T), [Component.GetComponent\(string\)](#) , [Component.GetComponentInChildren\(Type, bool\)](#) , [Component.GetComponentInChildren\(Type\)](#) , [Component.GetComponentInChildren<T>\(bool\)](#) , Component.GetComponentInChildren<T>(), [Component.GetComponentsInChildren\(Type, bool\)](#) , [Component.GetComponentsInChildren\(Type\)](#) , [Component.GetComponentsInChildren<T>\(bool\)](#) , [Component.GetComponentsInChildren<T>\(bool, List<T>\)](#) , Component.GetComponentsInChildren<T>(), [Component.GetComponentsInChildren<T>\(List<T>\)](#) , [Component.GetComponentInParent\(Type, bool\)](#) , [Component.GetComponentInParent\(Type\)](#) , [Component.GetComponentInParent<T>\(bool\)](#) , Component.GetComponentInParent<T>(), [Component.GetComponentsInParent\(Type, bool\)](#) , [Component.GetComponentsInParent\(Type\)](#) , [Component.GetComponentsInParent<T>\(bool\)](#) , [Component.GetComponentsInParent<T>\(bool, List<T>\)](#) , Component.GetComponentsInParent<T>(), [Component.GetComponents\(Type\)](#) , [Component.GetComponents\(Type, List<Component>\)](#) , [Component.GetComponents<T>\(List<T>\)](#) , Component.GetComponents<T>(), Component.GetComponentIndex(), [Component.CompareTag\(string\)](#) ,

[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\(string, object, SendMessageOptions\)](#),
[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>\(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>\)](#),
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform), Object.Instantiate(Object),
Object.Instantiate(Object, Scene), 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\(Type, FindObjectsSortMode\)](#),
[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>(FindObjectsInactive, FindObjectsSortMode),
Object.FindObjectOfType<T>(), [Object.FindObjectOfType<T>\(bool\)](#),
Object.FindFirstObjectByType<T>(), Object.FindAnyObjectByType<T>(),
Object.FindFirstObjectByType<T>(FindObjectsInactive),
Object.FindAnyObjectByType<T>(FindObjectsInactive), [Object.FindObjectsOfTypeAll\(Type\)](#),
[Object.FindObjectOfType\(Type\)](#), [Object.FindFirstObjectByType\(Type\)](#),
[Object.FindAnyObjectByType\(Type\)](#), [Object.FindObjectOfType\(Type, bool\)](#),

[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

Smri

Returns this ISnapshots SMRI

```
public uint Smri { get; }
```

Property Value

[uint](#)

Methods

AddWeapon(Weapon)

Adds the passed weapon in the inventory

```
public void AddWeapon(Weapon _weapon)
```

Parameters

_weapon [Weapon](#)

The weapon to add

CacheModel()

Dynamically called when its time to save

```
public void CacheModel()
```

ConstructModel()

Returns an ISnapshotModel with the inventory needed data.

```
public ISnapshotModel ConstructModel()
```

Returns

[ISnapshotModel](#)

GetSnapshotModelType()

Returns the type of the ISnapshotModel this ISnapshot's data get represented.

```
public Type GetSnapshotModelType()
```

Returns

[Type](#)

LoadModel(ISnapshotModel)

Sets the playe fields from the incoming deserialized model

```
public void LoadModel(ISnapshotModel _model)
```

Parameters

_model [ISnapshotModel](#)

SIventory model containing the deserialized data

RegisterToSaveManager()

Register the inventory to the save manager and set its SMRI

```
public void RegisterToSaveManager()
```

RetrieveReferences(int[])

Sets any reference the inventory may have, like its weapons.

```
public void RetrieveReferences(int[] _refSmris)
```

Parameters

_refSmris [int](#)[]

UnregisterToSaveManager()

Unregisters the reference from the save manager

```
public void UnregisterToSaveManager()
```



Class Player

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
public class Player : MonoBehaviour, ISnapshot
```

Inheritance

[object](#)  ← Object ← Component ← Behaviour ← MonoBehaviour ← Player

Implements

[ISnapshot](#)

Inherited Members

MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke(), [MonoBehaviour.Invoke\(string, float\)](#) , [MonoBehaviour.InvokeRepeating\(string, float, float\)](#) , [MonoBehaviour.CancelInvoke\(string\)](#) , [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\(string\)](#) , MonoBehaviour.StopAllCoroutines(), [MonoBehaviour.print\(object\)](#) , MonoBehaviour.destroyCancellationToken, MonoBehaviour.useGUILayout, MonoBehaviour.runInEditMode, Behaviour.enabled, Behaviour.isActiveAndEnabled, [Component.GetComponent\(Type\)](#) , Component.GetComponent<T>(), [Component.TryGetComponent\(Type, out Component\)](#) , Component.TryGetComponent<T>(out T), [Component.GetComponent\(string\)](#) , [Component.GetComponentInChildren\(Type, bool\)](#) , [Component.GetComponentInChildren\(Type\)](#) , [Component.GetComponentInChildren<T>\(bool\)](#) , Component.GetComponentInChildren<T>(), [Component.GetComponentsInChildren\(Type, bool\)](#) , [Component.GetComponentsInChildren<T>\(bool\)](#) , [Component.GetComponentsInChildren<T>\(bool, List<T>\)](#) , Component.GetComponentsInChildren<T>(), [Component.GetComponentsInChildren<T>\(List<T>\)](#) , [Component.GetComponentInParent\(Type, bool\)](#) , [Component.GetComponentInParent\(Type\)](#) , [Component.GetComponentInParent<T>\(bool\)](#) , Component.GetComponentInParent<T>(), [Component.GetComponentsInParent\(Type, bool\)](#) , [Component.GetComponentsInParent\(Type\)](#) , [Component.GetComponentsInParent<T>\(bool\)](#) , [Component.GetComponentsInParent<T>\(bool, List<T>\)](#) , Component.GetComponentsInParent<T>(), [Component.GetComponents\(Type\)](#) , [Component.GetComponents\(Type, List<Component>\)](#) , [Component.GetComponents<T>\(List<T>\)](#) , Component.GetComponents<T>(), Component.GetComponentIndex(), [Component.CompareTag\(string\)](#) ,

[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\(string, object, SendMessageOptions\)](#),
[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>\(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>\)](#),
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform), Object.Instantiate(Object),
Object.Instantiate(Object, Scene), 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\(Type, FindObjectsSortMode\)](#),
[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>(FindObjectsInactive, FindObjectsSortMode),
Object.FindObjectOfType<T>(), [Object.FindObjectOfType<T>\(bool\)](#),
Object.FindFirstObjectByType<T>(), Object.FindAnyObjectByType<T>(),
Object.FindFirstObjectByType<T>(FindObjectsInactive),
Object.FindAnyObjectByType<T>(FindObjectsInactive), [Object.FindObjectsOfTypeAll\(Type\)](#),
[Object.FindObjectOfType\(Type\)](#), [Object.FindFirstObjectByType\(Type\)](#),
[Object.FindAnyObjectByType\(Type\)](#), [Object.FindObjectOfType\(Type, bool\)](#),

[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

Smri

Returns this ISnapshots SMRI

```
public uint Smri { get; }
```

Property Value

[uint](#)

Methods

CacheModel()

Dynamically called when its time to save

```
public void CacheModel()
```

ConstructModel()

Returns an ISnapshotModel with the player needed data.

```
public ISnapshotModel ConstructModel()
```

Returns

[ISnapshotModel](#)

GetSnapshotModelType()

Returns the type of the ISnapshotModel this ISnapshot's data get represented.

```
public Type GetSnapshotModelType()
```

Returns

[Type](#)

LoadModel(ISnapshotModel)

Sets the player fields from the incoming deserialized model

```
public void LoadModel(ISnapshotModel _model)
```

Parameters

_model [ISnapshotModel](#)

SPlayer model containing the deserialized data

RegisterToSaveManager()

Register the player to the save manager and set its SMRI

```
public void RegisterToSaveManager()
```

RetrieveReferences(int[])

Sets any reference the player may have, like its inventory.

```
public void RetrieveReferences(int[] _refSmris)
```

Parameters

`_refSmris int[]`

UnregisterToSaveManager()

Unregisters the reference from the save manager

```
public void UnregisterToSaveManager()
```

Struct SInventory

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
[MessagePackObject(false)]  
public struct SInventory : ISnapshotModel
```

Implements

[ISnapshotModel](#)

Inherited Members

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

Fields

_MaxItems

```
[Key(2)]  
public int _MaxItems
```

Field Value

[int](#)

_Position

```
[Key(3)]  
public Vector3 _Position
```

Field Value

Vector3

_Rotation

[Key(4)]

```
public Quaternion _Rotation
```

Field Value

Quaternion

Properties

RefSmris

The class/struct should have an int array to store its references SMRIs

[Key(1)]

```
public int[] RefSmris { readonly get; set; }
```

Property Value

[int](#)[]

Smri

The class/struct should have an SMRI field

[Key(0)]

```
public uint Smri { readonly get; set; }
```

Property Value

[uint](#)

Struct SPlayer

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
[MessagePackObject(false)]  
public struct SPlayer : ISnapshotModel
```

Implements

[ISnapshotModel](#)

Inherited Members

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

Fields

_Health

```
[Key(2)]  
public float _Health
```

Field Value

[float](#)

_IsAlive

```
[Key(5)]  
public bool _IsAlive
```

Field Value

[bool](#)

_Position

[Key(6)]

`public Vector3 _Position`

Field Value

Vector3

_Rotation

[Key(7)]

`public Quaternion _Rotation`

Field Value

Quaternion

_Shield

[Key(4)]

`public float _Shield`

Field Value

[float](#)

_Stamina

[Key(3)]

`public float _Stamina`

Field Value

[float](#)

Properties

RefSmris

The class/struct should have an int array to store its references SMRIs

```
[Key(1)]  
public int[] RefSmris { readonly get; set; }
```

Property Value

[int](#)  []

Smri

The class/struct should have an SMRI field

```
[Key(0)]  
public uint Smri { readonly get; set; }
```

Property Value

[uint](#) 

Struct SWeapon

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
[MessagePackObject(false)]  
public struct SWeapon : ISnapshotModel
```

Implements

[ISnapshotModel](#)

Inherited Members

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

Fields

_Ammo

```
[Key(2)]  
public int _Ammo
```

Field Value

[int](#)[↗]

_Loaded

```
[Key(3)]  
public bool _Loaded
```

Field Value

[bool](#)[↗]

_Position

[Key(4)]

```
public Vector3 _Position
```

Field Value

Vector3

_Rotation

[Key(5)]

```
public Quaternion _Rotation
```

Field Value

Quaternion

Properties

RefSmris

The class/struct should have an int array to store its references SMRIs

[Key(1)]

```
public int[] RefSmris { readonly get; set; }
```

Property Value

[int](#)  []

Smri

The class/struct should have an SMRI field

[Key(0)]

```
public uint Smri { readonly get; set; }
```

Property Value

[uint](#)

Class SaveManager


Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll








Responsible for handling the SnapshotWrapper, ISnapshot and ISnapshotModel instances. Hands out SMRIs.

```
public class SaveManager
```

Inheritance

[object](#)  ← SaveManager

Inherited Members

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

Constructors

SaveManager(Common)

Creates a SaveManager instance

```
public SaveManager(Common _common)
```

Parameters

_common [Common](#)

Reference to the Common instance

Properties

Snapshots

Returns a read only collection of the Snapshot reference cache.

```
public IReadOnlyList<ISnapshot> Snapshots { get; }
```

Property Value

[IReadOnlyList](#) <[ISnapshot](#)>

Methods

CacheModel(ISnapshotModel)

Stores the passed model to the SaveManager data container list.

```
public void CacheModel(ISnapshotModel _model)
```

Parameters

_model [ISnapshotModel](#)

The snapshot data container instance

Cleanup()

Resets the dll library caches and SMRI.

```
public bool Cleanup()
```

Returns

[bool](#)

LoadSaveFile(string)

Kicks off the Unpacking mechanism contained in the passed fileName. The deserialized data are stored inside the SaveManager ISnapshotModel cache for accessing. Each cached ISnapshot.LoadModel and ISnapshot.RetrieveReferences method gets called after each data retrieval from the dll cache.

```
public void LoadSaveFile(string _fileName)
```

Parameters

_fileName [string](#)

RegisterModel(ISnapshot)

Registers the passed ISnapshot instance to the serialization event handler and adds it to the ISnapshot reference list.

```
public uint RegisterModel(ISnapshot _snapshot)
```

Parameters

_snapshot [ISnapshot](#)

The snapshot instance

Returns

[uint](#)

The SMRI of the registered model.

Save()

Kicks off the packing sequence. All the cached ISnapshot.CacheData methods get called and their data are serialized and passed to the internal DLL library cache. The cached SaveManager models list gets cleared afterwards.

```
public void Save()
```

UnregisterFromSnapshot(ISnapshot)

Unregisters the passed ISnapshot from data caching upon packing. The passed snapshot is also removed from the Snapshot list.

```
public void UnregisterFromSnapshot(ISnapshot _snapshot)
```

Parameters

_snapshot [ISnapshot](#)


Class Weapon

Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

```
public class Weapon : MonoBehaviour, ISnapshot
```

Inheritance

[object](#)  ← Object ← Component ← Behaviour ← MonoBehaviour ← Weapon

Implements

[ISnapshot](#)

Inherited Members

MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke(), [MonoBehaviour.Invoke\(string, float\)](#) , [MonoBehaviour.InvokeRepeating\(string, float, float\)](#) , [MonoBehaviour.CancelInvoke\(string\)](#) , [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\(string\)](#) , MonoBehaviour.StopAllCoroutines(), [MonoBehaviour.print\(object\)](#) , MonoBehaviour.destroyCancellationToken, MonoBehaviour.useGUILayout, MonoBehaviour.runInEditMode, Behaviour.enabled, Behaviour.isActiveAndEnabled, [Component.GetComponent\(Type\)](#) , Component.GetComponent<T>(), [Component.TryGetComponent\(Type, out Component\)](#) , Component.TryGetComponent<T>(out T), [Component.GetComponent\(string\)](#) , [Component.GetComponentInChildren\(Type, bool\)](#) , [Component.GetComponentInChildren\(Type\)](#) , [Component.GetComponentInChildren<T>\(bool\)](#) , Component.GetComponentInChildren<T>(), [Component.GetComponentsInChildren\(Type, bool\)](#) , [Component.GetComponentsInChildren\(Type\)](#) , [Component.GetComponentsInChildren<T>\(bool\)](#) , [Component.GetComponentsInChildren<T>\(bool, List<T>\)](#) , Component.GetComponentsInChildren<T>(), [Component.GetComponentsInChildren<T>\(List<T>\)](#) , [Component.GetComponentInParent\(Type, bool\)](#) , [Component.GetComponentInParent\(Type\)](#) , [Component.GetComponentInParent<T>\(bool\)](#) , Component.GetComponentInParent<T>(), [Component.GetComponentsInParent\(Type, bool\)](#) , [Component.GetComponentsInParent\(Type\)](#) , [Component.GetComponentsInParent<T>\(bool\)](#) , [Component.GetComponentsInParent<T>\(bool, List<T>\)](#) , Component.GetComponentsInParent<T>(), [Component.GetComponents\(Type\)](#) , [Component.GetComponents\(Type, List<Component>\)](#) , [Component.GetComponents<T>\(List<T>\)](#) , Component.GetComponents<T>(), Component.GetComponentIndex(), [Component.CompareTag\(string\)](#) ,

[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\(string, object, SendMessageOptions\)](#) ,
[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>\(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>\)](#) ,
Object.Instantiate(Object, Vector3, Quaternion) ,
Object.Instantiate(Object, Vector3, Quaternion, Transform) , Object.Instantiate(Object) ,
Object.Instantiate(Object, Scene) , 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\(Type, FindObjectsSortMode\)](#) ,
[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>(FindObjectsInactive, FindObjectsSortMode) ,
Object.FindObjectOfType<T>() , [Object.FindObjectOfType<T>\(bool\)](#) ,
Object.FindFirstObjectByType<T>() , Object.FindAnyObjectByType<T>() ,
Object.FindFirstObjectByType<T>(FindObjectsInactive) ,
Object.FindAnyObjectByType<T>(FindObjectsInactive) , [Object.FindObjectsOfTypeAll\(Type\)](#) ,
[Object.FindObjectOfType\(Type\)](#) , [Object.FindFirstObjectByType\(Type\)](#) ,
[Object.FindAnyObjectByType\(Type\)](#) , [Object.FindObjectOfType\(Type, bool\)](#) ,

[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

Smri

Returns this ISnapshots SMRI

```
public uint Smri { get; }
```

Property Value

[uint](#)

Methods

CacheModel()

Dynamically called when its time to save

```
public void CacheModel()
```

ConstructModel()

Returns an ISnapshotModel with the player needed data.

```
public ISnapshotModel ConstructModel()
```

Returns

[ISnapshotModel](#)

GetSnapshotModelType()

Returns the type of the ISnapshotModel this ISnapshot's data get represented.

```
public Type GetSnapshotModelType()
```

Returns

[Type](#)

LoadModel(ISnapshotModel)

Sets the weapon fields from the incoming deserialized model

```
public void LoadModel(ISnapshotModel _model)
```

Parameters

_model [ISnapshotModel](#)

SWeapon model containing the deserialized data

RegisterToSaveManager()

Register the weapon to the save manager and set its SMRI

```
public void RegisterToSaveManager()
```

RetrieveReferences(int[])

Sets any reference the weapon may have, like its inventory.

```
public void RetrieveReferences(int[] _refSmris)
```

Parameters

`_refSmris int[]`

SetInventory(Inventory)

Sets the inventory this weapon belongs to.

```
public void SetInventory(Inventory _inventory)
```

Parameters

`_inventory` [Inventory](#).

The inventory reference

UnregisterToSaveManager()

Unregisters the reference from the save manager

```
public void UnregisterToSaveManager()
```

Class WorldLoader


Namespace: [ProposedArchitecture](#)

Assembly: com.mad.snapshot.dll

Handles the world creation and order of SMRIs simultaneously.

```
[DefaultExecutionOrder(-250)]  
public class WorldLoader : MonoBehaviour
```

Inheritance

[object](#)  ← Object ← Component ← Behaviour ← MonoBehaviour ← WorldLoader

Inherited Members

MonoBehaviour.IsInvoking(), MonoBehaviour.CancelInvoke(), [MonoBehaviour.Invoke\(string, float\)](#) , [MonoBehaviour.InvokeRepeating\(string, float, float\)](#) , [MonoBehaviour.CancelInvoke\(string\)](#) , [MonoBehaviour.IsInvoking\(string\)](#) , [MonoBehaviour.StartCoroutine\(string\)](#) , [MonoBehaviour.StartCoroutine\(string, object\)](#) , [MonoBehaviour.StartCoroutine\(IEnumerator\)](#) , [MonoBehaviour.StartCoroutine_Auto\(IEnumerator\)](#) , [MonoBehaviour.StopCoroutine\(Enumerator\)](#) , [MonoBehaviour.StopCoroutine\(string\)](#) , [MonoBehaviour.StopAllCoroutines\(\)](#) , [MonoBehaviour.print\(object\)](#) , [MonoBehaviour.destroyCancellationToken](#), [MonoBehaviour.useGUILayout](#), [MonoBehaviour.runInEditMode](#), [Behaviour.enabled](#), [Behaviour.isActiveAndEnabled](#), [Component.GetComponent\(Type\)](#) , [Component.GetComponent<T>\(\)](#) , [Component.TryGetComponent\(Type, out Component\)](#) , [Component.TryGetComponent<T>\(out T\)](#) , [Component.GetComponent\(string\)](#) , [Component.GetComponentInChildren\(Type, bool\)](#) , [Component.GetComponentInChildren\(Type\)](#) , [Component.GetComponentInChildren<T>\(bool\)](#) , [Component.GetComponentInChildren<T>\(\)](#) , [Component.GetComponentsInChildren\(Type, bool\)](#) , [Component.GetComponentsInChildren\(Type\)](#) , [Component.GetComponentsInChildren<T>\(bool\)](#) , [Component.GetComponentsInChildren<T>\(bool, List<T>\)](#) , [Component.GetComponentsInChildren<T>\(\)](#) , [Component.GetComponentsInChildren<T>\(List<T>\)](#) , [Component.GetComponentInParent\(Type, bool\)](#) , [Component.GetComponentInParent\(Type\)](#) , [Component.GetComponentInParent<T>\(bool\)](#) , [Component.GetComponentInParent<T>\(\)](#) , [Component.GetComponentsInParent\(Type, bool\)](#) , [Component.GetComponentsInParent\(Type\)](#) , [Component.GetComponentsInParent<T>\(bool\)](#) , [Component.GetComponentsInParent<T>\(bool, List<T>\)](#) , [Component.GetComponentsInParent<T>\(\)](#) , [Component.GetComponents\(Type\)](#) , [Component.GetComponents\(Type, List<Component>\)](#) , [Component.GetComponents<T>\(List<T>\)](#) , [Component.GetComponents<T>\(\)](#) , [Component.GetComponentIndex\(\)](#) , [Component.CompareTag\(string\)](#)

[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\(string, object, SendMessageOptions\)](#),
[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>\(T, int, Transform, ReadOnlySpan<Vector3>, ReadOnlySpan<Quaternion>\)](#),
Object.Instantiate(Object, Vector3, Quaternion),
Object.Instantiate(Object, Vector3, Quaternion, Transform), Object.Instantiate(Object),
Object.Instantiate(Object, Scene), 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\(Type, FindObjectsSortMode\)](#),
[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>(FindObjectsInactive, FindObjectsSortMode),
Object.FindObjectOfType<T>(), [Object.FindObjectOfType<T>\(bool\)](#),
Object.FindFirstObjectByType<T>(), Object.FindAnyObjectByType<T>(),
Object.FindFirstObjectByType<T>(FindObjectsInactive),
Object.FindAnyObjectByType<T>(FindObjectsInactive), [Object.FindObjectsOfTypeAll\(Type\)](#),
[Object.FindObjectOfType\(Type\)](#), [Object.FindFirstObjectByType\(Type\)](#),
[Object.FindAnyObjectByType\(Type\)](#), [Object.FindObjectOfType\(Type, bool\)](#),

[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

FromLoad

Is the start-up a load procedure?

```
public bool FromLoad { get; }
```

Property Value

[bool](#)

Namespace Snapshot

Classes

[SnapshotWrapper](#)

C# library wrapper of SnapshotLib x64-bit dll.

Class SnapshotWrapper


Namespace: [Snapshot](#)

Assembly: com.mad.snapshot.dll








C# library wrapper of SnapshotLib x64-bit dll.

```
public static class SnapshotWrapper
```

Inheritance

[object](#)  ← SnapshotWrapper

Inherited Members

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


Methods

CacheData(uint, byte[], int[])

Caches the passed data and references SMRIs inside the dll cache. Values are copies so it's safe to also delete them if you want.

```
public static bool CacheData(uint _smri, byte[] _data, int[] _refSmris)
```

Parameters

_smri [uint](#) 

The SMRI to associate the data array to

_data [byte](#)  []

The data to copy over to the dll

_refSmris [int](#)  []

The references SMRI this SMRI needs.

Returns

[bool](#)

True if the caching was successful, false otherwise.

DecreaseSmri()

Decreases the global SMRI by 1. Use when [GetSmri\(\)](#) fails.

```
public static void DecreaseSmri()
```

Exceptions

[Exception](#)


Could not decrease SMRI from DLL

DeleteSmriData(uint)

Deletes the data associated with the passed SMRI inside the dll.

```
public static bool DeleteSmriData(uint _smri)
```

Parameters

_smri [uint](#)

The SMRI to delete data from

Returns

[bool](#)

True if the deletion was successful, false otherwise.

Exceptions

[Exception](#)

Could not delete the smri data

GetCurrentSmri()

Returns the current non-incremented global SMRI from the DLL.

```
public static int GetCurrentSmri()
```

Returns

[int](#)

Exceptions

[Exception](#)

Could not retrieve current SMRI from DLL

GetData(uint)

Returns the associated byte array of the passed smri from the dll.

```
public static byte[] GetData(uint _smri)
```

Parameters

_smri [uint](#)

The SMRI to retrieve data for

Returns

[byte](#)[]

A byte array containing the deserialized data or null.

GetLoadFileName()

Returns the cached save file name from inside the dll.

```
public static string GetLoadFileName()
```

Returns

[string](#)

The saved file name stored in the dll. Can be an empty string.

Exceptions

[Exception](#)

Could not get the current load from filename from DLL

GetRefSmris(uint)

Returns an int array containing the referenced SMRI of the passed SMRI from the dll.

```
public static int[] GetRefSmris(uint _parentSmri)
```

Parameters

_parentSmri [uint](#)

The SMRI to retrieve referenced SMRIs for.

Returns

[int](#) []

A byte array containing the data or null.

GetSavePath()

Returns the absolute save path from inside the dll.

```
public static string GetSavePath()
```

Returns

[string](#)[↗]

Returns the absolute save path from inside the dll.

Exceptions

[Exception](#)[↗]

Could not get the current save path from DLL

GetSmri()

Increases and returns the global DLL SMRI used for data storing and reference preservation.

```
public static uint GetSmri()
```

Returns

[uint](#)[↗]

A uint representing the SMRI in the DLL

Exceptions

[Exception](#)[↗]

Could not retrieve SMRI from DLL.

PackData()

Starts the packing sequence of the cached data inside the dll.

```
public static bool PackData()
```

Returns

[bool](#)

True if packing was successful, false otherwise.

ResetCache()

Deallocates the dll data cache and clears it. Resets the set saved directory value to empty. Resets the set file name value to empty.

```
public static bool ResetCache()
```

Returns

[bool](#)

True if the reset was successful, false otherwise.

ResetSmri()

Resets the DLL global SMRI back to its default value: -1.

```
public static bool ResetSmri()
```

Returns

[bool](#)

True if the reset was succesful, false otherwise with an error log.

SetLoadFileName(string)

Sets the save file name inside the dll.

```
public static bool SetLoadFileName(string _loadFromFileName)
```


Parameters

`_loadFromFileName` [string](#)

The save file name to unpack from.

Returns

[bool](#)

True if set was successful, false otherwise.

SetSavePath(string)

Sets the save path inside the dll.

```
public static bool SetSavePath(string _path)
```

Parameters

`_path` [string](#)

The absolute path to the save directory

Returns

[bool](#)

True if the set was successful, false otherwise.

UnpackData()

Starts the unpacking sequence inside the dll to deserialize the serialized data and store them in the dll cache. GlobalSMRI is set to be equal to the unpacked data size. Cached datas are overwritten.

```
public static bool UnpackData()
```

Returns

[bool](#) 

True if unpacking was successful, false otherwise.