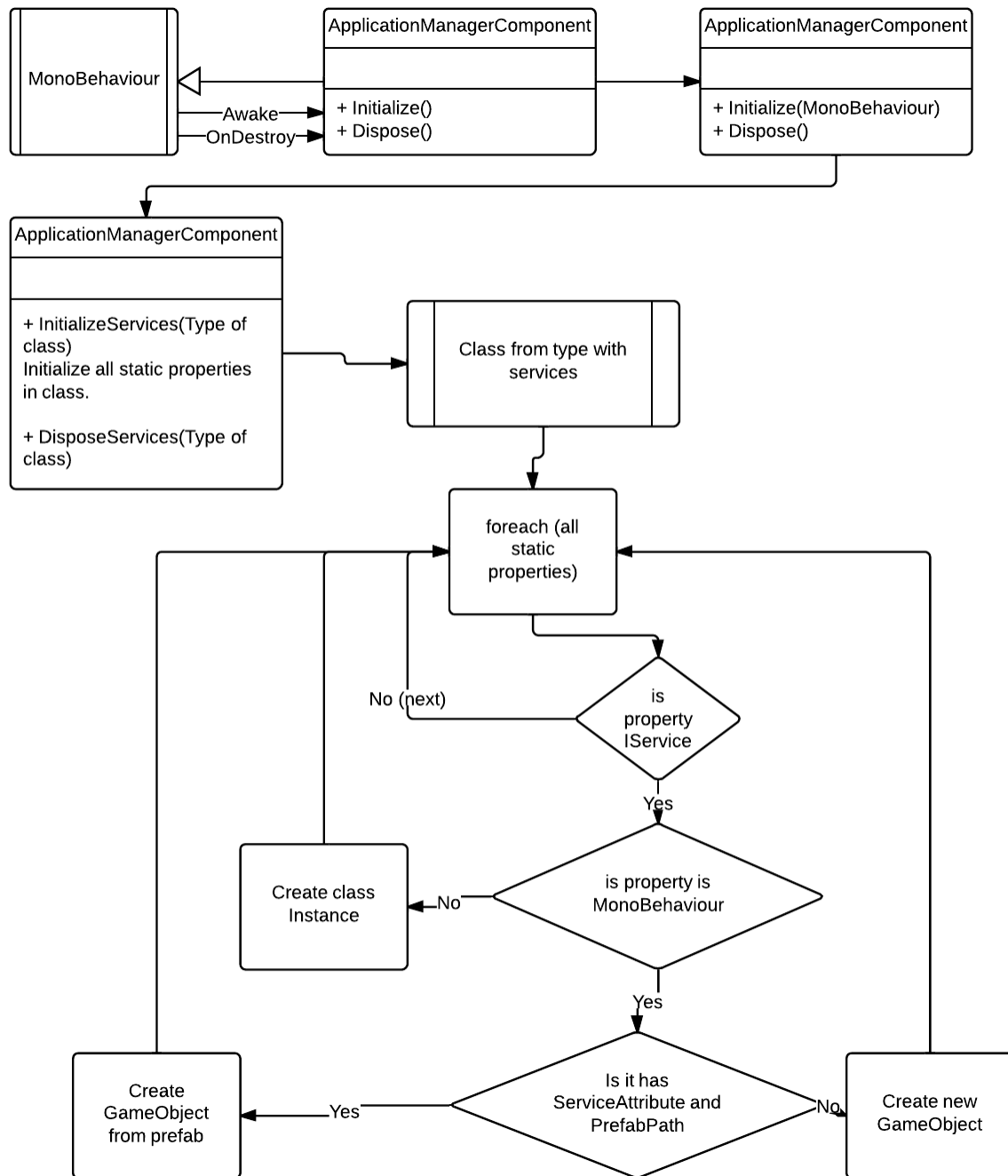


Service structure



ApplicationManagerComponent

- To make only one entry point in our application there is one `MonoBehaviour`: `ApplicationManagerComponent`.
- It listens to `Awake()` and `OnDestroy()` only to create instance of `ApplicationManager`

ApplicationManager

- Singleton which initialize when application starts.
- On initialization call ServiceInitializer->InitializeServices for all static service classes
- On dispose call ServiceInitializer->DisposeServices for all static service classes

ServiceInitializer

- Using reflection takes all **public** and **static properties** from class
- Exclude all properties which not using IService interface
- If property is MonoBehaviour then try get ServiceAttribute
 - If there is ServiceAttribute and PrefabPath is not empty -> create GameObject from prefab
 - Else -> create new GameObject
- Else -> create class instance

IService

- Interface with 2 methods: **Initialize** and **Dispose**

ServiceAttribute

- Class attribute with custom parametres:
 - PrefabPath - load gameobject from prefab
 - Dependencies - array of depend Types

Example

```
[Service(PrefabPath = "...somePathToPrefab...")]
public class MonoBehaviourFromPrefab : MonoBehaviour, IService
{
    //Load and instantiate gameobject from prefab
    public void Initialize() { }
    public void Dispose() { }
}

[Service()] //or possible no attribute
public class MonoBehaviourNew : MonoBehaviour, IService
{
    //Create new gameobject and AddComponent<> to it
    public void Initialize() { }
    public void Dispose() { }
}

public class SomeServiceClass : IService
{
    //Create instance of this class
    public void Initialize() { }
    public void Dispose() { }
}

//just simple add classes like properties
public static class _
{
    public MonoBehaviourFromPrefab MonoBehaviourFromPrefab { get; set; }
    public MonoBehaviourNew MonoBehaviourNew { get; set; }
}
```

```
public SomeServiceClass SomeServiceClass { get; set; }  
}
```