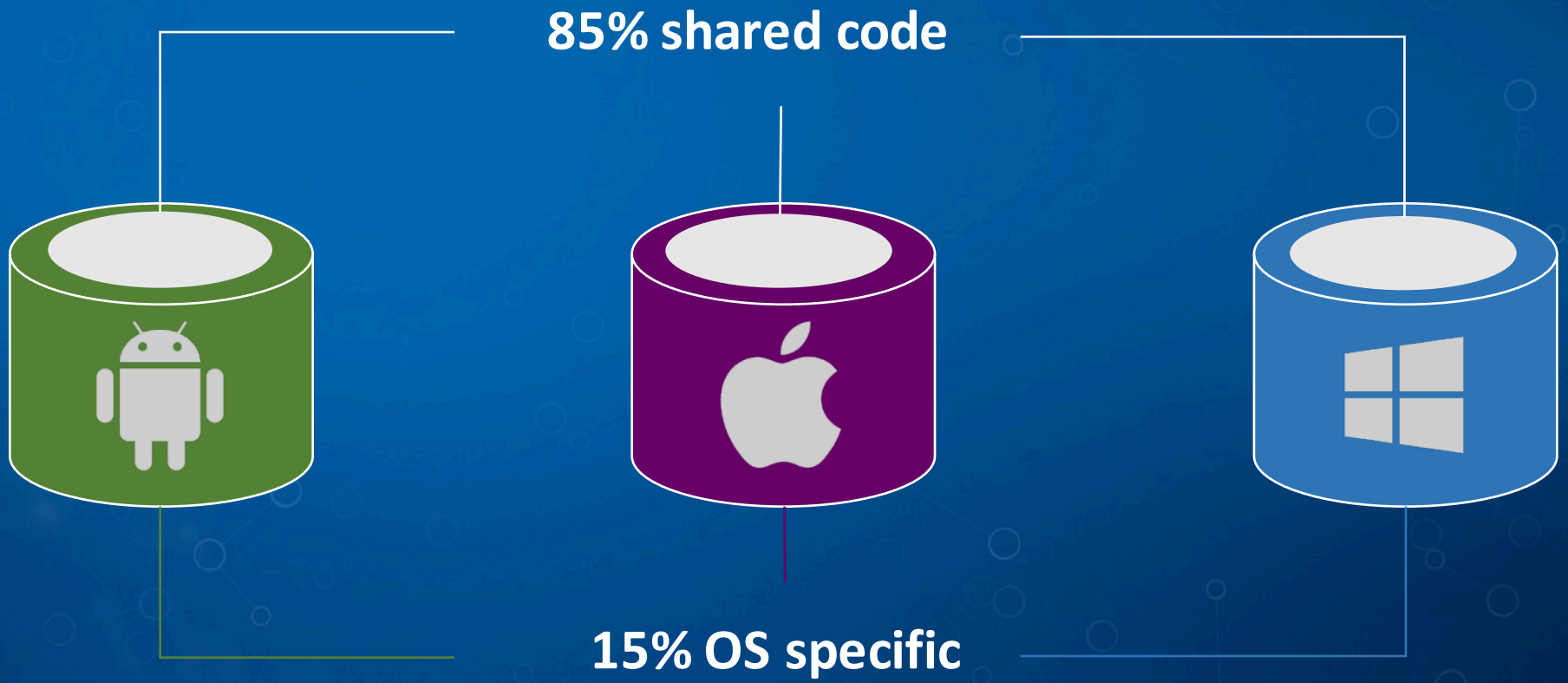
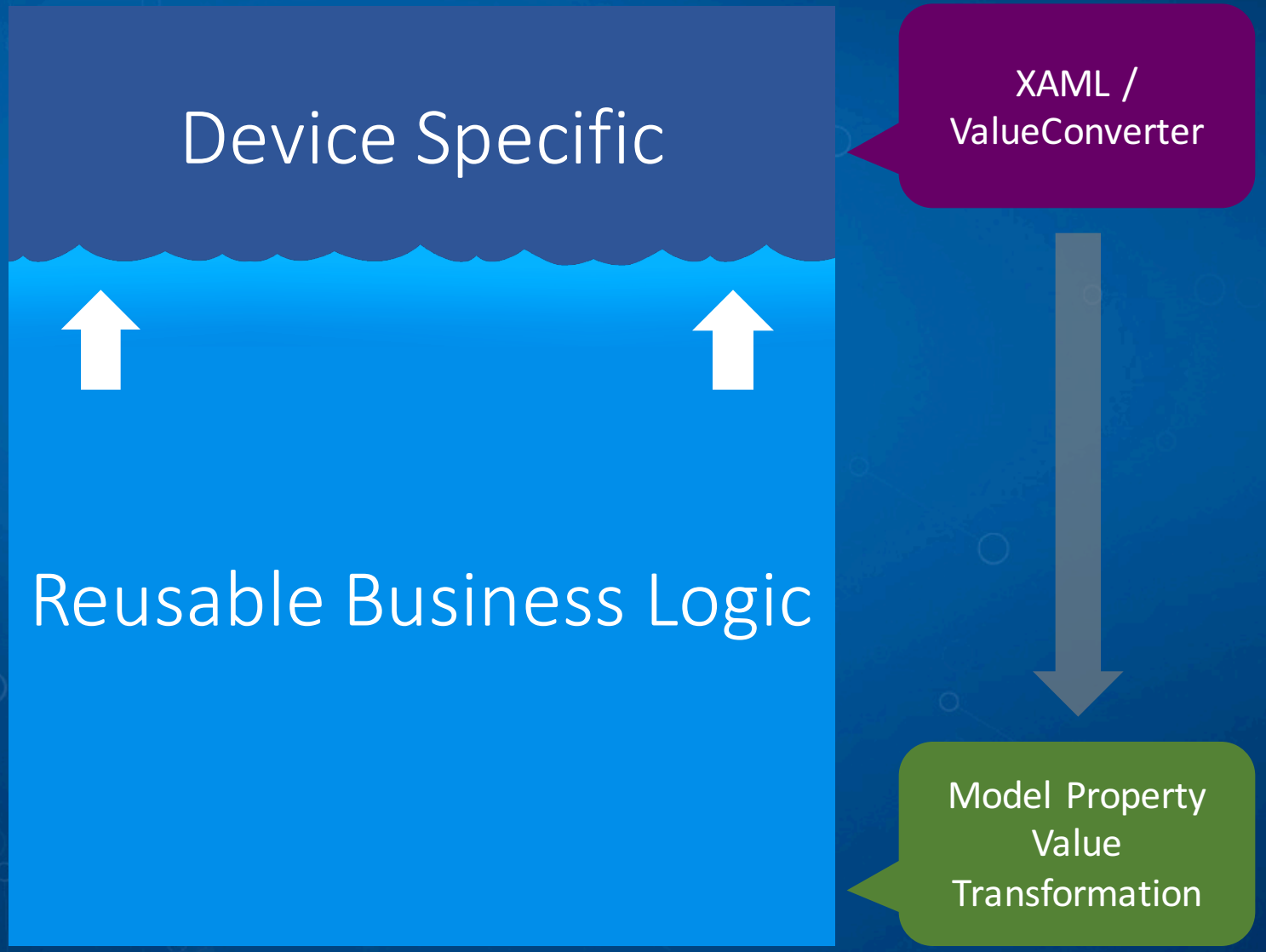
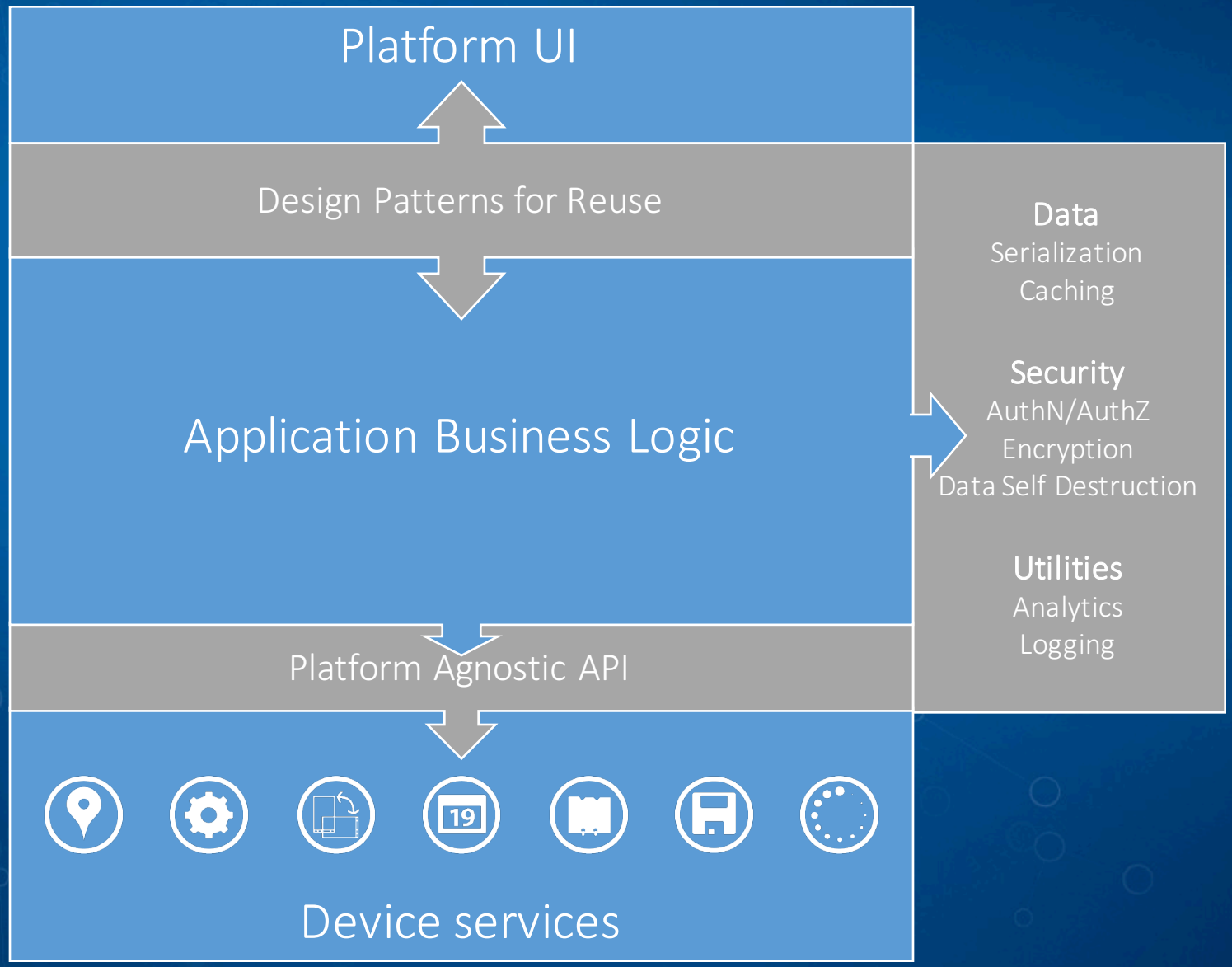
# Code sharing

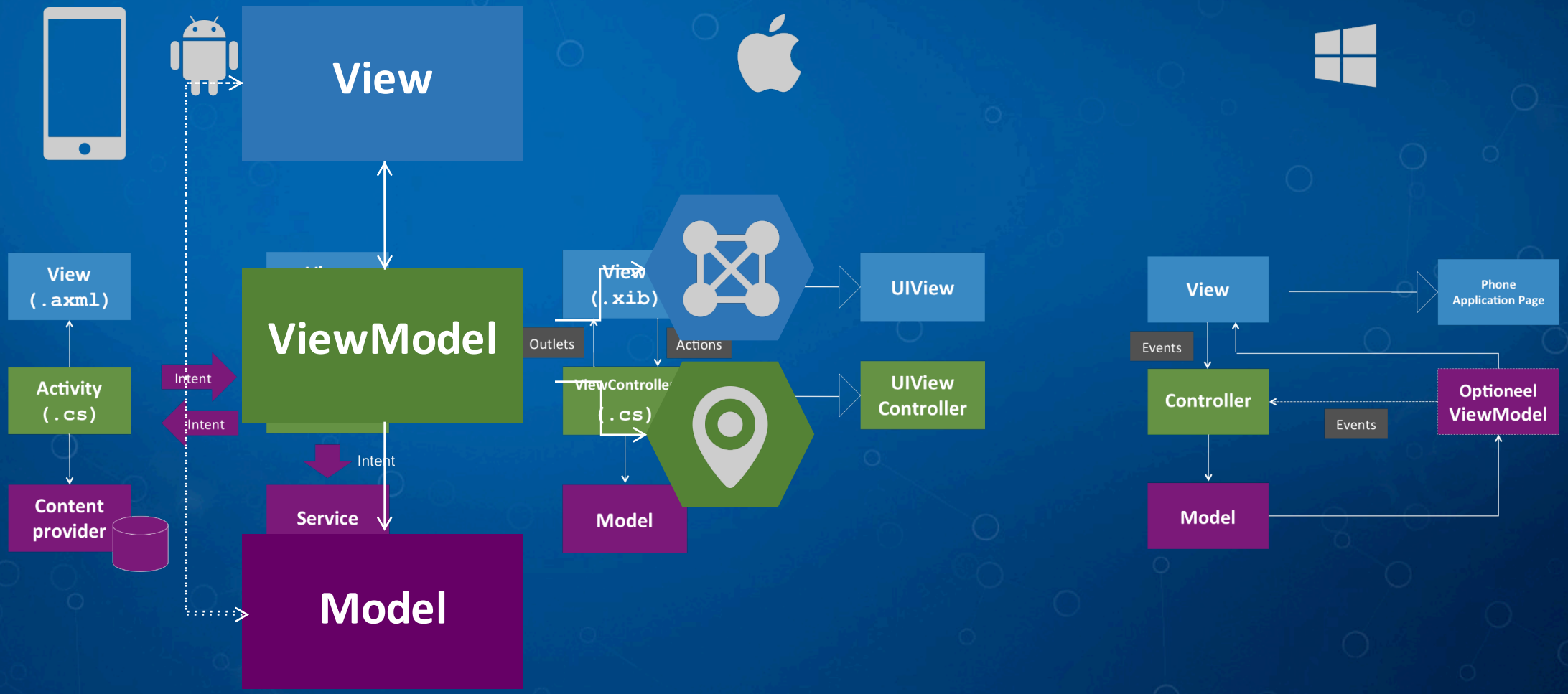
# The promise




Device Specific
Reusable Business Logic
XAML / ValueConverter
Model Property Value Transformation


Platform UI
Design Patterns for Reuse
Application Business Logic
Platform Agnostic API
Device services
Data
Serialization
Caching
Security
AuthN/AuthZ
Encryption
Data Self Destruction
Utilities
Analytics
Logging

# Design patterns for reuse

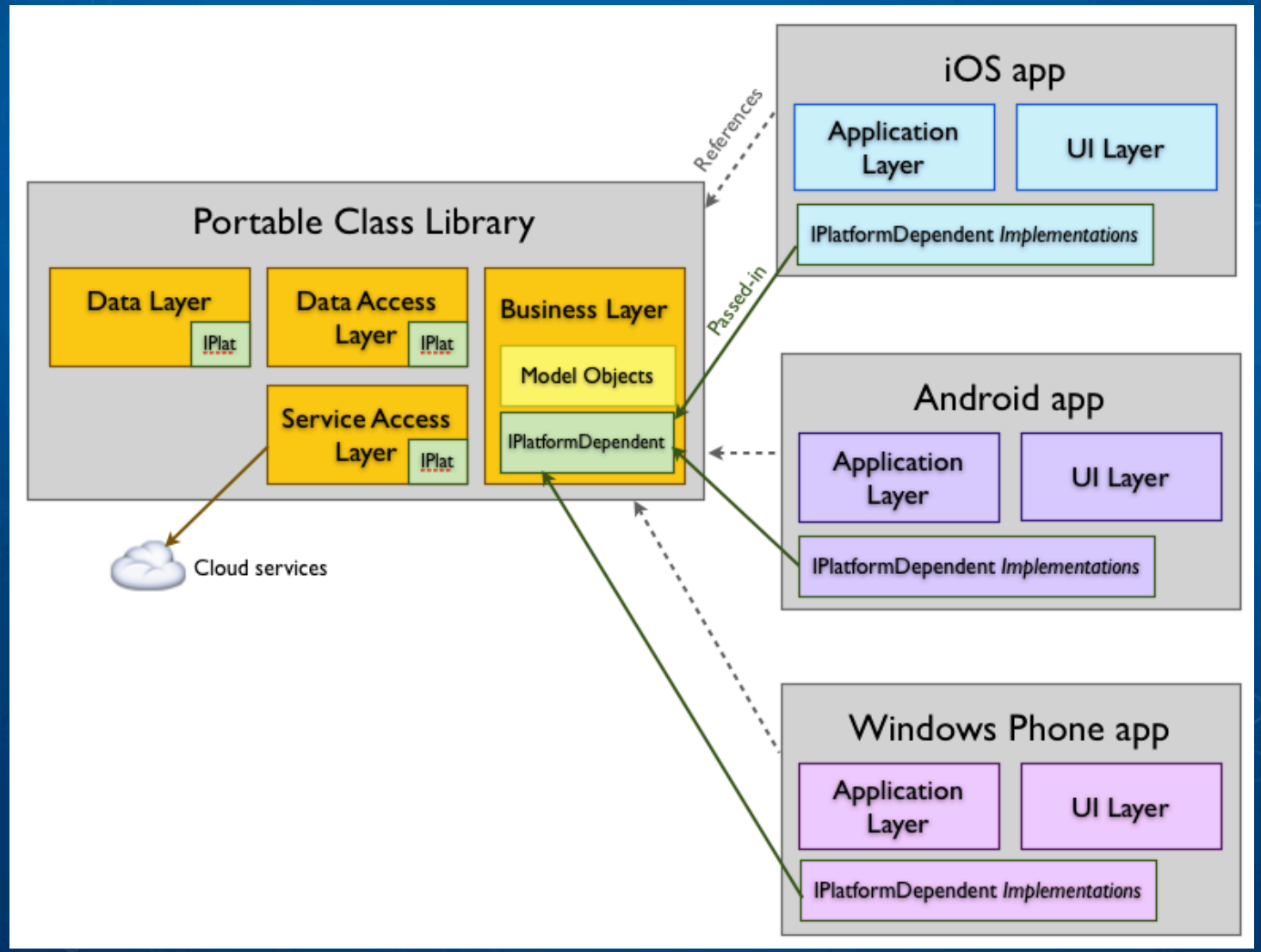


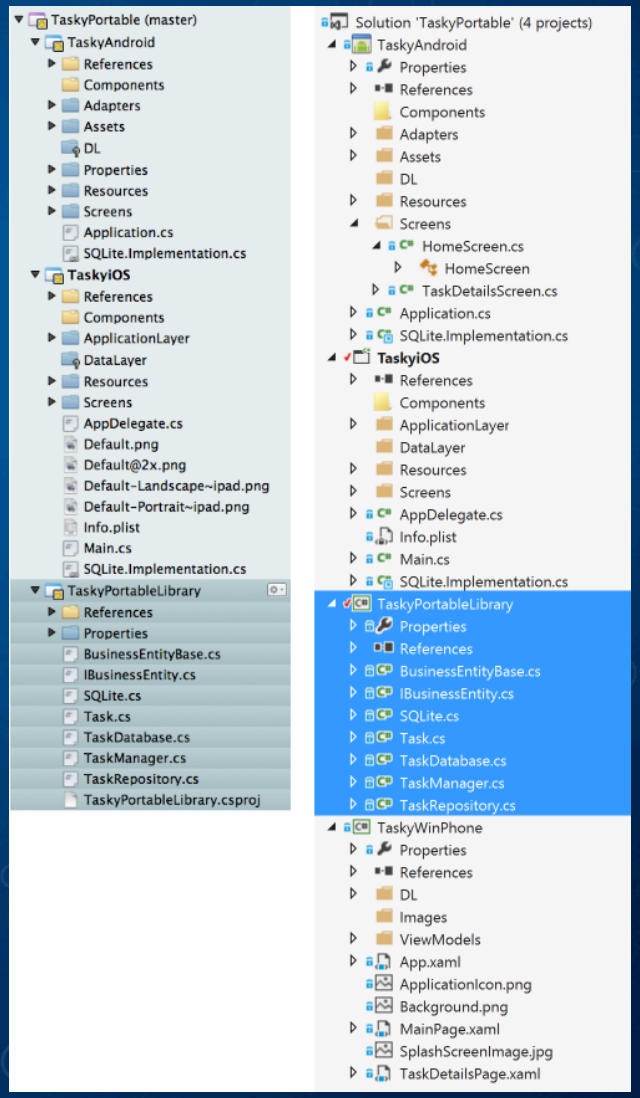
# Platform Agnostic API

## Device abstraction

## Plugins for Xamarin or Roll Your Own

# Portable Class Libraries & Shared libraries



# Dependency injection 101

A.cs

PCLExample

```
class A
{
    public void DoSomething()
    {
        // Resolve IA, and use it
       ServiceContainer.Resolve<IB>().DoSomething()
    }
}
```

B.cs

PCLExample.Android

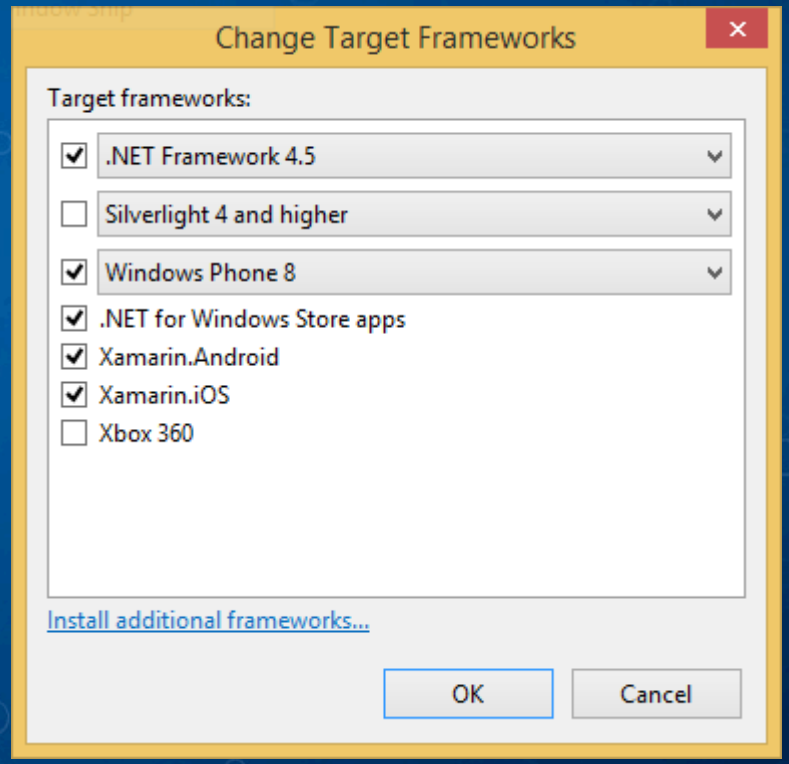
```
public class B : IB
{
    public void DoSomething()
    {
        // Do something Android specific
    }
}
```

B.cs

PCLExample.iOS

```
public class B : IB
{
    public void DoSomething()
    {
        // Do something iOS specific
    }
}
```

# PCL Profiles – pick the one for you




**Profile 78 (.NET 4.5, Windows 8.0, Windows Phone Silverlight 8.0)**

Async/Await

Works out of the box

Very good Xamarin compatibility

**This is Xamarin's current preferred profile, but that will likely change to 259 in the future**

Hands on