**Sequence of Components/Functions Integration**

In the following sub-sections the sequence of components to be tested will be shown. Please note that the components designated at the same level can be tested in any order, as long as the orders of the level is maintained.

**Integration Overview**

The following image shows an overview of the sequence of components integration that must be achieved. The arrows highlights the direction of the bottom-up approach.

[Image]

**Level 1**

*DatabaseManager*, *QueueManager* and *MessageBroker* are components that can be tested independently in any order. The image shows the required interfaces’ stubs and the components’ drivers.

[Image]

Notice that there are different drivers for the same component (like *RideManager*) because, of course, each driver is specifically bound to a single component.

**Level 2**

Testing the *UsersManager* is the following step.

[Image]

**Level 3**

Now the *RidesManager* is tested.

[Image]

**Level 4**

The last component to be tested is the *ApplicationServer*.

[Image]

**Final result**

[Image]

**WebServer**

The *WebServer* can be tested without any other component.

[Image]

**Client**

[Explanation]

[Image]