***Component Interfaces***

For each component defined in the previous diagrams we summarize which kind of interfaces link it to the rest of the system, specifying the nature of those interfaces.

* Web Server

Type of interface: exchange of web pages via http protocol.

Each service offered to web clients is mapped a customer service provided by the Application Server.

* Application Server

Type of interface: remote procedure call.

Summary of the main interfaces offered:

* Registration()
* Login()
* NewRequest()
* NewRegistration()
* DeleteRide()
* History()
* RidesInfo()
* AcceptRide() / RefuseRide() // only drivers
* setAvailability() // only drivers
* CreateDriver() / DeleteDriver() // only admin
* ModifyRide() // only admin
* ForceLogout() // only admin
* RidesManager

Type of interface: procedure call.

Summary of the main interfaces offered:

* NewRequest()
* NewReservation()
* RideCompleted()
* SubscribeCustomerToRide()
* SubscribeDriverToRide()
* DeleteRide()
* History()
* RidesInfo()
* UsersManager

Type of interface: procedure call.

Summary of the main interfaces offered:

* getUser()
* getDriver()
* setAvailability()
* checkAlreadyRegistered()
* createUser()
* verifyLogin()
* QueueManager

Type of interface: procedure call

Summary of the main interfaces offered:

* SearchTaxiInQueue()
* RemoveFromQueue()
* MoveTaxiBottomQueue()
* updatePosition()
* DatabaseManager

Type of interface: procedure call.

This component is a sort of stub acting the role of the real database.

The interfaces offered are basically all kind of query, inserts, deletes and updates addressed to the actual tables of the real database.

* MessageBroker

Type of interface: procedure call.

This component is responsible of communications with both mobile clients (directly via remote procedure calls) and web clients (indirectly via web server).

The interfaces offered are basically procedures that forward any kind of relevant message to the clients, possibly also to multiple clients due to the pub-sub architecture style.

* MTSDatabase

Type of interface: remote queries and standard database operations.

All kind of inserts, updates, deletes and queries are offered.

* GPS Interface

Type of interface: remote web service.

* RetrieveCoordinates()