|  |  |
| --- | --- |
| Interface ID | EventConsumer |
| Description | Push Events from Event Sources  or Core Get can subscribe to event sources |
| Input | Events |
| Output | none |
| Interaction Patterns | Synchronous Push or Pull. Events can be pushed to the platform or the platform can pull events from known sources |
| Implementation Choice |  |
| Error Handling | No error handling |
| DataModel Entitites exchanged | Events |

|  |  |
| --- | --- |
| Interface ID | EventAdministrator |
| Description | Push Event type definitions to the platform, necessary in order to import events of this type |
| Input | EventsTypes |
| Output | Confirmation |
| Interaction Patterns | Synchronous Request/Reply |
| Implementation Choice |  |
| Error Handling | Synchronous Confirmation |
| DataModel Entitites exchanged | Events, Boolean |

|  |  |
| --- | --- |
| Interface ID | EventProvider |
| Description | Publish/Subscribe interface to deliver events |
| Input | QueueIDs |
| Output | Events |
| Interaction Patterns | Asynchronous Publish/Subscribe |
| Implementation Choice |  |
| Error Handling | Message delivery is guaranteed, caching mechanism if connection fails in between |
| DataModel Entitites exchanged | Events, String |

|  |  |
| --- | --- |
| Interface ID | SubscriptionQueryConsumer |
| Description | Request/Reply interface to register queries and create corresponding queues and receive their id. |
| Input | QueueIDs |
| Output | Events |
| Interaction Patterns | Synchronous Request/Reply |
| Implementation Choice |  |
| Error Handling | Synchronous reply or exception |
| DataModel Entitites exchanged | String |

|  |  |
| --- | --- |
| Interface ID | EventServicesInterface |
| Description | Request/Reply interface that offers higher level actions on events. |
| Input | ??? |
| Output | ??? |
| Interaction Patterns | Synchronous Request/Reply |
| Implementation Choice |  |
| Error Handling | Synchronous reply or exception |
| DataModel Entitites exchanged | ??? |

|  |  |
| --- | --- |
| Interface ID | PlanningInfoProvider |
| Description | Request/Reply interface to access route information and timetables |
| Input | Route Ids and timetable names |
| Output | Route, Timetable |
| Interaction Patterns | Synchronous Request/Reply |
| Implementation Choice |  |
| Error Handling | Synchronous reply or exception |
| DataModel Entitites exchanged | String, Route, Timetables |

|  |  |
| --- | --- |
| Interface ID | PlanningInfoConsumer |
| Description | Request/Reply interface to store route information and timetables |
| Input | Route, Timetable |
| Output | String |
| Interaction Patterns | Synchronous Request/Reply |
| Implementation Choice |  |
| Error Handling | Synchronous reply or exception |
| DataModel Entitites exchanged | String, Route, Timetables |