Communication protocol

All the messages exchanged between the server and clients are coded in JSON and interpreted as events. A ping message is sent asynchronously with the messages.

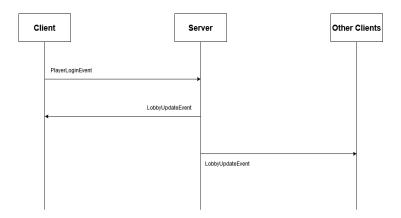
All JSON messagges use the following scheme:

```
{
    "event": "EventName",
    "attributes":
    {
        // class attributes
    }
}
```

The communication can be divided in 9 different phases (described below)

Inizialization

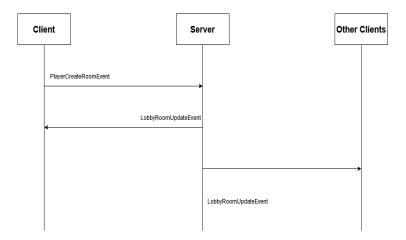
Login phase



PlayerLoginEvent

LobbyUpdateEvent

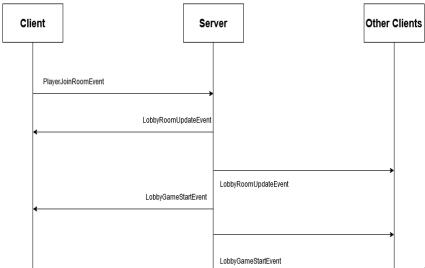
Create Room Phase



PlayerCreateRoomEvent

${\bf Lobby Room Update Event}$

Join room phase



The game starts only if the max number of player is reached

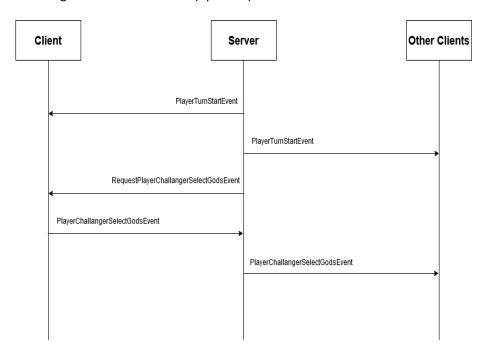
PlayerJoinRoomEvent

LobbyRoomUpdateEvent

LobbyGameStartEvent

Game Phase

Challenger Select Gods Phase (optional)



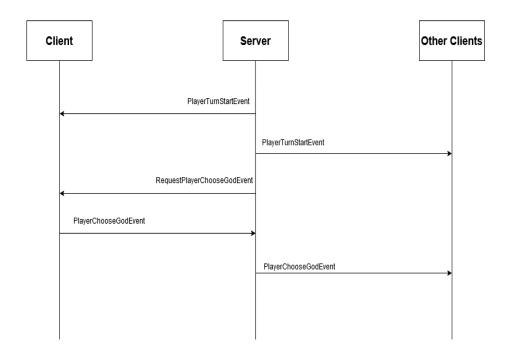
PlayerTurnStartEvent

Request Player Challenger Select Gods Event

```
{
    "event" : "RequestPlayerChallengerSelectGodsEvent"
    "attributes" :
    {
        player : player,
        List of gods,
        selcectedGodsCount (the number of gods to select),
    }
}
```

PlayerChallengerSelectGodsEvent

Select gods phase (optional)



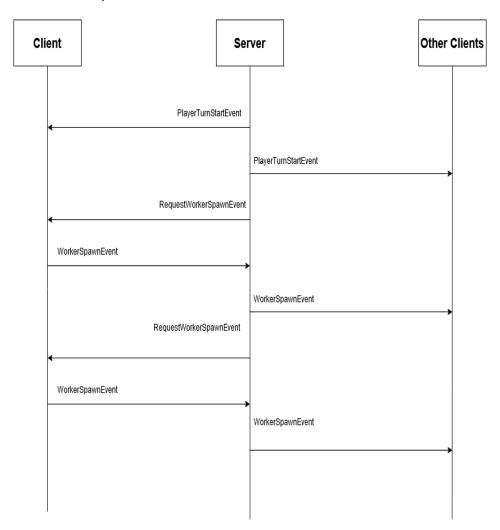
Request Player Choose God Event

```
{
    "event" : "RequestPlayerChooseEvent",
    "attributes" :
    {
        player : player,
        List of avaiable gods,
    }
}
```

${\bf Player Choose God Event}$

```
{
    "event" : "PlayerChooseGodEvent",
    "attributes" :
    {
        player : player,
            god : god (the selected god),
    }
}
```

Place worker phase

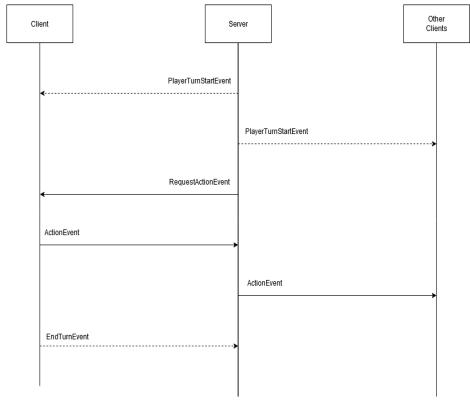


RequestWorkerSpawEvent

WorkerSpawnEvent

```
{
    "event" : "WorkerSpawnEvent",
    "attributes" :
    {
        player : player,
        id : id (the worker id),
        position : position (coordinates),
    }
}
```

Action phase

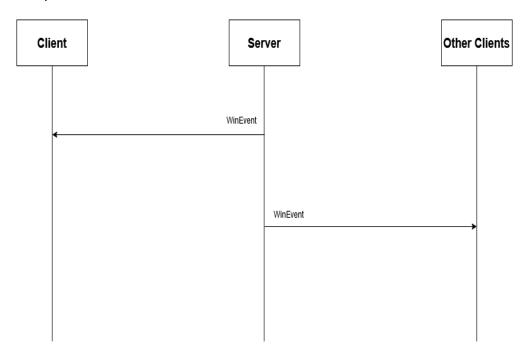


This phase is the same for Move, BuildBlock, BuildDome and Force.

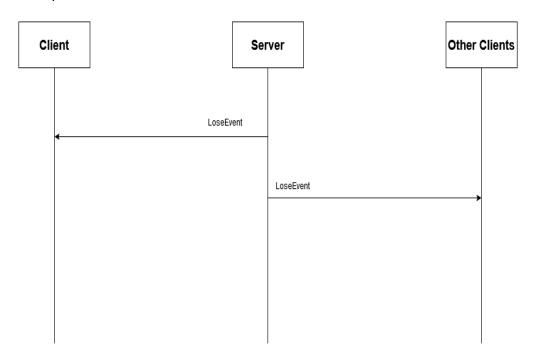
Request Action Event

```
{
          "event": "RequestActionEvent",
          "attributes :
          {
                    player : player,
                    worker: worker
List of avaiable target (only in the force move),
List of avaiable destiantions,
          }
}
ActionEvent
{
          "event": "ActionEvent",
          "attributes :
          {
                    player : player,
                    worker : worker;
target : target (only in the force move),
                    destination : destination,
          }
```

Win phase



Lose phase



LoseEvent