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.

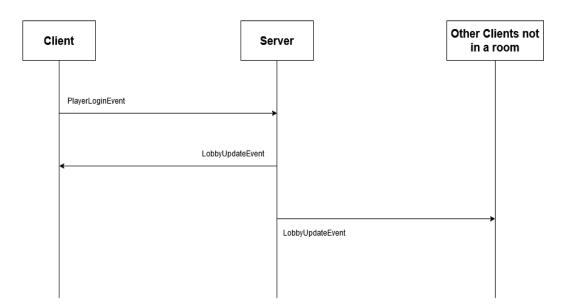
All JSON messagges use the following scheme:

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

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

Inizialization

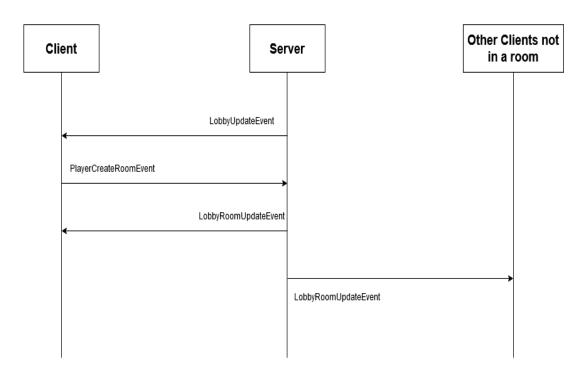
Login phase



PlayerLoginEvent

LobbyUpdateEvent

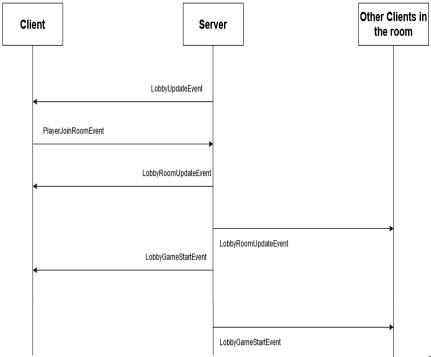
Create Room Phase



${\bf Player Create Room Event}$

${\bf Lobby Room Update Event}$

Join room phase



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

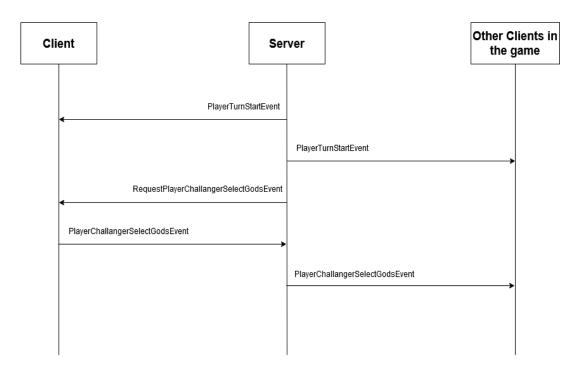
PlayerJoinRoomEvent

LobbyRoomUpdateEvent

LobbyGameStartEvent

Game Phase

Challenger Select Gods Phase (optional)



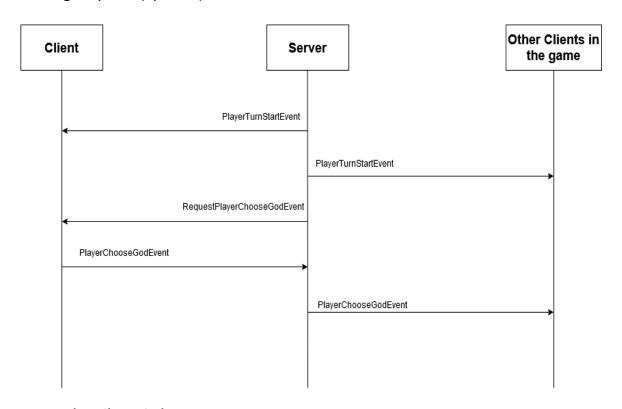
${\bf Player Turn Start Event}$

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)



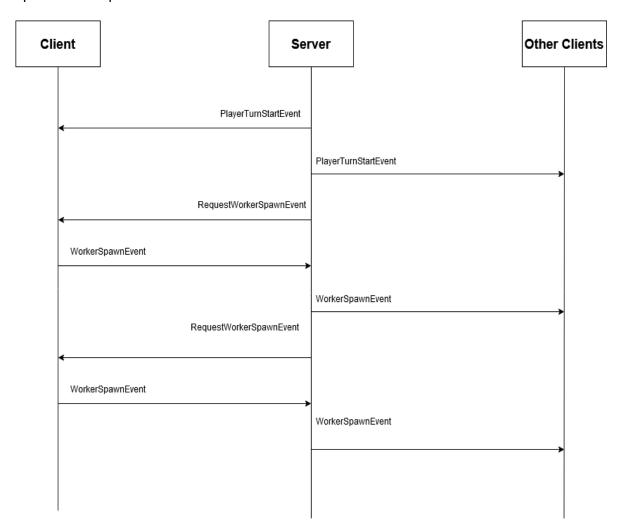
Request Player Choose God Event

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

PlayerChooseGodEvent

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

Spawnworker phase

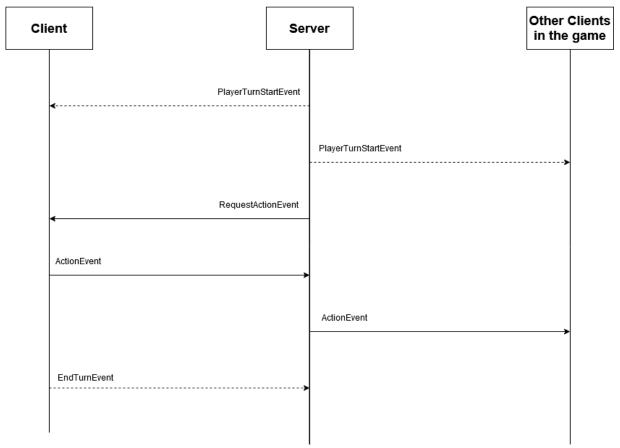


RequestWorkerSpawEvent

WorkerSpawnEvent

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

Action phase

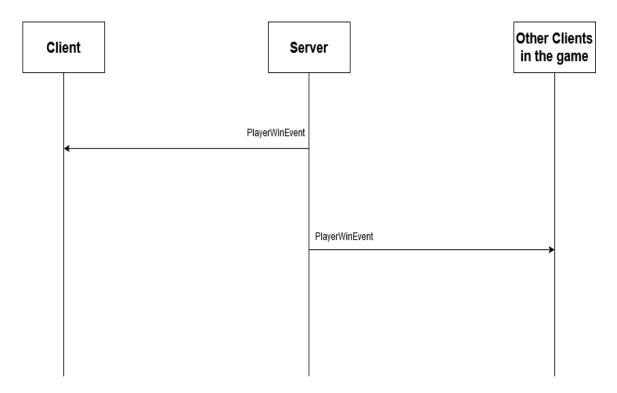


This phase is the same for Move, BuildBlock, BuildDome and Force.

RequestActionEvent

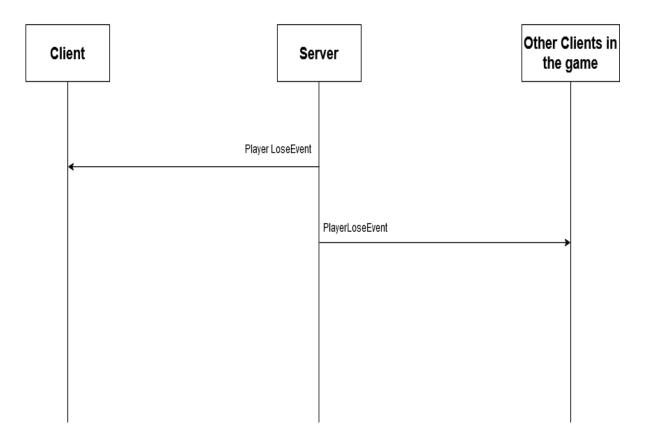
```
{
        "event": "RequestActionEvent",
        "attributes :
                 player : player,
worker : worker
                 List of avaiable target (only in the force move),
                 List of avaiable destiantions,
        }
}
ActionEvent
{
        "event" : "ActionEvent",
        "attributes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

Win phase



PlayerWinEvent

Lose phase



PlayerLoseEvent