**Step1 – Initial (this message is not necessary for client and server):**

Client sample Message to Server:

{

"jsonrpc": "2.0",

"id": 1,

"method": "spectrum.paws.init",

"params": {

"type": "INIT\_REQ",

"version": "1.0",

"deviceDesc": {

"serialNumber": "620000094",

"manufacturerId": "6harmonics",

"modelId": "virtual-radio",

"rulesetIds": [

"ETSI-EN-301-598-1.1.1"

],

"etsiEnDeviceType": "A",

"etsiEnDeviceCategory": "master",

"etsiEnDeviceEmissionsClass": "3",

"etsiEnTechnologyId": "NominetTech"

},

"location": {

"point": {

"center": {

"latitude": 51.507611,

"longitude": -0.111162

},

"semiMajorAxis": 0,

"semiMinorAxis": 0,

"orientation": 0

},

"confidence": 95

}

}

Server sample response:

**{**http://tool.oschina.net/tools/json_format/Expanded.gif

**"jsonrpc"**: "2.0"**,**

**"id"**: 1**,**

**"result"**: **{**http://tool.oschina.net/tools/json_format/Expanded.gif

**"type"**: "INIT\_RESP"**,**

**"version"**: "1.0"**,**

**"serverMessage"**: null**,**

**"rulesetInfos"**: null**,**

**"databaseChange"**: null

**}**

**}**

**Slave channel usage:**

Client message to server:

{

"jsonrpc": "2.0",

"id": 1,

"method": "spectrum.paws.getSpectrum",

"params": {

"type": "AVAIL\_SPECTRUM\_REQ",

"version": "1.0",

"deviceDesc": {

"serialNumber": "620000095",

"manufacturerId": "6harmonics",

"modelId": "virtual-radio",

"rulesetIds": [

"ETSI-EN-301-598-1.1.1"

],

"etsiEnDeviceType": "A",

"etsiEnDeviceCategory": "slave",

"etsiEnDeviceEmissionsClass": "5",

"etsiEnTechnologyId": "NominetTech"

},

"location": {

"point": {

"center": {

"latitude": 51.5073,

"longitude": -0.1111

},

"semiMajorAxis": 0,

"semiMinorAxis": 0,

"orientation": 0

},

"confidence": 95

},

"antenna": {

"height": 5,

"heightType": "AGL",

"heightUncertainty": 0

},

"masterDeviceDesc": {

"serialNumber": "620000094",

"manufacturerId": "6harmonics",

"modelId": "virtual-radio",

"rulesetIds": [

"ETSI-EN-301-598-1.1.1"

],

"etsiEnDeviceType": "A",

"etsiEnDeviceCategory": "master",

"etsiEnDeviceEmissionsClass": "3",

"etsiEnTechnologyId": "NominetTech"

},

"masterDeviceLocation": {

"point": {

"center": {

"latitude": 51.507611,

"longitude": -0.111162

},

"semiMajorAxis": 0,

"semiMinorAxis": 0,

"orientation": 0

},

"confidence": 95

}

}

}

Sever response:

**{**http://tool.oschina.net/tools/json_format/Expanded.gif

**"jsonrpc"**: "2.0"**,**

**"id"**: 1**,**

**"result"**: **{**http://tool.oschina.net/tools/json_format/Expanded.gif

**"type"**: "AVAIL\_SPECTRUM\_RESP"**,**

**"version"**: "1.0"**,**

**"serverMessage"**: null**,**

**"timestamp"**: "2018-03-07T10:22:10.9661671+08:00"**,**

**"deviceDesc"**: **{**http://tool.oschina.net/tools/json_format/Expanded.gif

**"serialNumber"**: ""**,**

**"manufacturerId"**: ""**,**

**"modelId"**: ""**,**

**"rulesetIds"**: null**,**

**"etsiEnDeviceType"**: ""**,**

**"etsiEnDeviceEmissionsClass"**: ""**,**

**"etsiEnTechnologyId"**: ""**,**

**"etsiEnDeviceCategory"**: ""

**},**

**"spectrumSpecs"**: null

**}**

**}**