**Master:**

1. Query Overview

Initial – Master Operation parameters – General operation parameters – channel usage

1. Step details

**Step1 - Initial:**

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:

{

"jsonrpc": "2.0",

"id": 1,

"result": {

"type": "INIT\_RESP",

"version": "1.0",

"serverMessage": null,

"rulesetInfos": [

{

"authority": "uk",

"rulesetId": "ETSI-EN-301-598-1.1.1",

"maxLocationChange": 50,

"maxPollingSecs": 900,

"mcwsdSupport": true

}

],

"databaseChange": null

}

}

**Step 2 – Master Operation parameters:**

Client sample Message to Server:

{

"jsonrpc": "2.0",

"id": 1,

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

"params": {

"type": "AVAIL\_SPECTRUM\_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

},

"antenna": {

"height": 15,

"heightType": "AGL",

"heightUncertainty": 0

}

}

}

Server sample response:

{

"jsonrpc": "2.0",

"id": 1,

"result": {

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

"version": "1.0",

"serverMessage": null,

"timestamp": "2018-02-20T16:20:24.431Z",

"deviceDesc": {

"serialNumber": "620000094",

"manufacturerId": "6harmonics",

"modelId": "virtual-radio",

"rulesetIds": [

"ETSI-EN-301-598-1.1.1"

],

"etsiEnDeviceType": "A",

"etsiEnDeviceEmissionsClass": "3",

"etsiEnTechnologyId": "NominetTech",

"etsiEnDeviceCategory": "master"

},

"spectrumSpecs": [

{

"rulesetInfo": {

"authority": "uk",

"rulesetId": "ETSI-EN-301-598-1.1.1",

"maxLocationChange": 50,

"maxPollingSecs": 900,

"mcwsdSupport": true

},

"spectrumSchedules": [

{

"eventTime": {

"startTime": "2018-02-20T16:20:24.431Z",

"stopTime": "2018-02-21T16:20:24.431Z"

},

"spectra": [

{

"profiles": [

[

{

"hz": 470000000,

"dbm": 20

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{

"hz": 478000000,

"dbm": 20

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{

"hz": 478000000,

"dbm": 30

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{

"hz": 486000000,

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"hz": 574000000,

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"hz": 582000000,

"dbm": 33

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{

"hz": 590000000,

"dbm": 33

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{

"hz": 590000000,

"dbm": 25

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{

"hz": 598000000,

"dbm": 25

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{

"hz": 598000000,

"dbm": 15

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{

"hz": 606000000,

"dbm": 15

},

{

"hz": 606000000,

"dbm": -999

},

{

"hz": 614000000,

"dbm": -999

},

{

"hz": 614000000,

"dbm": 15

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{

"hz": 622000000,

"dbm": 15

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{

"hz": 622000000,

"dbm": 25

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{

"hz": 630000000,

"dbm": 25

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{

"hz": 630000000,

"dbm": 33

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{

"hz": 638000000,

"dbm": 33

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{

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"dbm": 36

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{

"hz": 646000000,

"dbm": 36

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{

"hz": 646000000,

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{

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{

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{

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{

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{

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{

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{

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{

"hz": 710000000,

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{

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"dbm": 36

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{

"hz": 774000000,

"dbm": 36

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{

"hz": 774000000,

"dbm": 36

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{

"hz": 782000000,

"dbm": 36

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{

"hz": 782000000,

"dbm": -999

},

{

"hz": 790000000,

"dbm": -999

}

]

],

"resolutionBwHz": 8000000

},

{

"profiles": [

[

{

"hz": 470000000,

"dbm": 0.97

},

{

"hz": 478000000,

"dbm": 0.97

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{

"hz": 478000000,

"dbm": 10.97

},

{

"hz": 486000000,

"dbm": 10.97

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{

"hz": 486000000,

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{

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{

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"dbm": 16.97

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{

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{

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{

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{

"hz": 598000000,

"dbm": 5.97

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{

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},

{

"hz": 606000000,

"dbm": -4.03

},

{

"hz": 606000000,

"dbm": -999

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{

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{

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{

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{

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{

"hz": 782000000,

"dbm": -999

},

{

"hz": 790000000,

"dbm": -999

}

]

],

"resolutionBwHz": 100000

}

]

}

],

"timeRange": {

"startTime": "2018-02-20T16:20:24.431Z",

"stopTime": "2018-02-21T16:20:24.431Z"

},

"frequencyRanges": [

{

"startHz": 470000000,

"stopHz": 790000000

}

],

"needsSpectrumReport": true,

"maxTotalBwHz": 24000000,

"maxContiguousBwHz": 24000000,

"etsiEnSimultaneousChannelOpera": "0"

}

]

}

}

**Step 3 – Genera Operation parameters:**

Client Sample message to server:

{

"jsonrpc": "2.0",

"id": 1,

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

"params": {

"type": "AVAIL\_SPECTRUM\_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

},

"antenna": {

"height": 15,

"heightType": "AGL",

"heightUncertainty": 0

},

"requestType": "Generic Slave"

}

}

Server sample response:

{

"jsonrpc": "2.0",

"id": 1,

"result": {

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

"version": "1.0",

"serverMessage": null,

"timestamp": "2018-02-20T16:23:05.481Z",

"deviceDesc": {

"serialNumber": "620000094",

"manufacturerId": "6harmonics",

"modelId": "virtual-radio",

"rulesetIds": [

"ETSI-EN-301-598-1.1.1"

],

"etsiEnDeviceType": "A",

"etsiEnDeviceEmissionsClass": "3",

"etsiEnTechnologyId": "NominetTech",

"etsiEnDeviceCategory": "master"

},

"spectrumSpecs": [

{

"rulesetInfo": {

"authority": "uk",

"rulesetId": "ETSI-EN-301-598-1.1.1",

"maxLocationChange": 50,

"maxPollingSecs": 900,

"mcwsdSupport": true

},

"spectrumSchedules": [

{

"eventTime": {

"startTime": "2018-02-20T16:23:05.481Z",

"stopTime": "2018-02-21T16:23:05.481Z"

},

"spectra": [

{

"profiles": [

[

{

"hz": 470000000,

"dbm": -1

},

{

"hz": 478000000,

"dbm": -1

},

{

"hz": 478000000,

"dbm": 9

},

{

"hz": 486000000,

"dbm": 9

},

{

"hz": 486000000,

"dbm": 20

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{

"hz": 494000000,

"dbm": 20

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{

"hz": 494000000,

"dbm": 30

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{

"hz": 502000000,

"dbm": 30

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{

"hz": 502000000,

"dbm": 36

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{

"hz": 510000000,

"dbm": 36

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{

"hz": 510000000,

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{

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{

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{

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{

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"dbm": 1

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"dbm": -9

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{

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{

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{

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{

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{

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{

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{

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{

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{

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{

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{

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{

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"dbm": 36

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{

"hz": 782000000,

"dbm": 36

},

{

"hz": 782000000,

"dbm": -999

},

{

"hz": 790000000,

"dbm": -999

}

]

],

"resolutionBwHz": 8000000

},

{

"profiles": [

[

{

"hz": 470000000,

"dbm": -20.03

},

{

"hz": 478000000,

"dbm": -20.03

},

{

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"dbm": -10.03

},

{

"hz": 486000000,

"dbm": -10.03

},

{

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"dbm": 0.97

},

{

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},

{

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{

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"dbm": 16.97

},

{

"hz": 510000000,

"dbm": 16.97

},

{

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"dbm": 16.97

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"dbm": 16.97

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{

"hz": 542000000,

"dbm": 16.97

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{

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"dbm": 16.97

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{

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"dbm": 16.97

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"hz": 574000000,

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"hz": 582000000,

"dbm": 2.97

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{

"hz": 582000000,

"dbm": -7.03

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{

"hz": 590000000,

"dbm": -7.03

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{

"hz": 590000000,

"dbm": -18.03

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{

"hz": 598000000,

"dbm": -18.03

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{

"hz": 598000000,

"dbm": -28.03

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{

"hz": 606000000,

"dbm": -28.03

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{

"hz": 606000000,

"dbm": -999

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{

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"dbm": -18.03

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"hz": 678000000,

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"hz": 742000000,

"dbm": 16.97

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"hz": 750000000,

"dbm": 16.97

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"hz": 750000000,

"dbm": 16.97

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"hz": 758000000,

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"hz": 774000000,

"dbm": 16.97

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"hz": 782000000,

"dbm": 16.97

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{

"hz": 782000000,

"dbm": -999

},

{

"hz": 790000000,

"dbm": -999

}

]

],

"resolutionBwHz": 100000

}

]

}

],

"timeRange": {

"startTime": "2018-02-20T16:23:05.481Z",

"stopTime": "2018-02-21T16:23:05.481Z"

},

"frequencyRanges": [

{

"startHz": 470000000,

"stopHz": 790000000

}

],

"needsSpectrumReport": true,

"maxTotalBwHz": 24000000,

"maxContiguousBwHz": 24000000,

"etsiEnSimultaneousChannelOpera": "0"

}

]

}

}

**Step 4 – Channel usage:**

Client Sample message to Server:

{

"jsonrpc": "2.0",

"id": 1,

"method": "spectrum.paws.notifySpectrumUse",

"params": {

"type": "SPECTRUM\_USE\_NOTIFY",

"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

},

"spectra": [

{

"resolutionBwHz": 8000000,

"profiles": [

[

{

"hz": 470000000,

"dbm": -999

},

{

"hz": 478000000,

"dbm": -999

},

{

"hz": 478000000,

"dbm": -999

},

{

"hz": 486000000,

"dbm": -999

}

]

]

},

{

"resolutionBwHz": 100000,

"profiles": [

[

{

"hz": 470000000,

"dbm": -999

},

{

"hz": 478000000,

"dbm": -999

},

{

"hz": 478000000,

"dbm": -999

},

{

"hz": 486000000,

"dbm": -999

}

]

]

}

]

}

}

Server sample response:

{

"jsonrpc": "2.0",

"id": 1,

"result": {

"type": "SPECTRUM\_USE\_RESP",

"version": "1.0",

"serverMessage": null,

"result": true,

"message": "OK"

}

}