


```
{  
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",  
  "response": {  
    "responseCode": 400  
  }  
}
```

2020-10-22T07:17:26.181Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:17:26.181Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :
2020-10-22T07:17:55.773Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n
2020-10-22T07:17:59.887Z - INFO - The final result of the test : WINNF.FT.C.GRA.1 is - passed and :the additional comments for the current test are : n



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```

]
}
2020-10-22T07:19:01.401Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:19:01.401Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:19:01.401Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:19:01.483Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:19:01.483Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:19:01.493Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:19:08.323Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```




```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
},  
{  
"measBandwidth": 10000000,
```




```
"measFrequency": 3560000000,  
"measRcvdPower": -89  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3570000000,  
"measRcvdPower": -88  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3580000000,  
"measRcvdPower": -87  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3590000000,  
"measRcvdPower": -86  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3600000000,  
"measRcvdPower": -85  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,
```




```
"measRcvdPower": -81
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -80
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -79
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -78
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
  "measRcvdPower": -77
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3690000000,
  "measRcvdPower": -76
}
]
},
"operationParam": {
  "maxEirp": 31,
  "operationFrequencyRange": {
    "highFrequency": 3570000000,
    "lowFrequency": 3550000000
  }
}
}
}
]
}
2020-10-22T07:19:14.880Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
```



```
{  
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",  
  "response": {  
    "responseCode": 401  
  }  
}  
]  
}
```

2020-10-22T07:19:15.963Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:19:15.963Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :
2020-10-22T07:19:19.407Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n
2020-10-22T07:19:20.730Z - INFO - The final result of the test : WINNF.FT.C.GRA.2 is - passed and :the additional comments for the current test are : n



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```

]
}
2020-10-22T07:21:30.894Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:21:30.894Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:21:30.894Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:21:30.974Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:21:30.984Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:21:30.984Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:21:41.503Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```

"measBandwidth": 10000000,
"measFrequency": 3610000000,
"measRcvdPower": -84
},
{
"measBandwidth": 10000000,
"measFrequency": 3620000000,
"measRcvdPower": -83
},
{
"measBandwidth": 10000000,
"measFrequency": 3630000000,
"measRcvdPower": -82
},
{
"measBandwidth": 10000000,
"measFrequency": 3640000000,
"measRcvdPower": -81
},
{
"measBandwidth": 10000000,
"measFrequency": 3650000000,
"measRcvdPower": -80
},
{
"measBandwidth": 10000000,
"measFrequency": 3660000000,
"measRcvdPower": -79
},
{
"measBandwidth": 10000000,
"measFrequency": 3670000000,
"measRcvdPower": -78
},
{
"measBandwidth": 10000000,
"measFrequency": 3680000000,
"measRcvdPower": -77
},
{
"measBandwidth": 10000000,

```

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```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
"measRcvdPower": -81
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -80
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -79
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -78
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
  "measRcvdPower": -77
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3690000000,
  "measRcvdPower": -76
}
}
],
"operationParam": {
  "maxEirp": 31,
  "operationFrequencyRange": {
    "highFrequency": 3570000000,
    "lowFrequency": 3550000000
  }
}
}
]
}
2020-10-22T07:21:48.039Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:21:48Z",
  "grantId": "993871125",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:21:54.497Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:21:54.532Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:25:14Z"
    }
  ]
}
2020-10-22T07:22:55.138Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

    }
  ]
}
2020-10-22T07:22:55.138Z - INFO - Time interval between two heartbeat request messages is: 60.64, limit is: 65.0
2020-10-22T07:22:55.157Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:26:15Z"
    }
  ]
}
}
2020-10-22T07:23:55.694Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T07:23:55.694Z - INFO - Time interval between two heartbeat request messages is: 60.557, limit is: 65.0
2020-10-22T07:23:55.704Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:27:15Z"
    }
  ]
}
}
}
2020-10-22T07:24:56.232Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "993871125",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:24:56.232Z - INFO - Time interval between two heartbeat request messages is: 60.537, limit is: 65.0

2020-10-22T07:24:56.252Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "993871125",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-10-22T07:28:16Z"
  }
]
```

2020-10-22T07:25:56.766Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "993871125",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:25:56.766Z - INFO - Time interval between two heartbeat request messages is: 60.535, limit is: 65.0

2020-10-22T07:25:56.776Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "993871125",
    "response": {
      "responseCode": 0
    }
  }
]
```




```

    },
    "transmitExpireTime": "2020-10-22T07:29:16Z"
  }
]
}
2020-10-22T07:26:57.319Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-10-22T07:26:57.319Z - INFO - Time interval between two heartbeat request messages is: 60.553, limit is: 65.0
2020-10-22T07:26:57.329Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "993871125",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:30:17Z"
    }
  ]
}
2020-10-22T07:26:58.579Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:26:58.579Z - INFO - the question is : Did CBSD1 transmit power prior to AUTHORIZED state (first successful HBT response)? please choose one of the answers :
2020-10-22T07:27:14.625Z - INFO - for the question : Did CBSD1 transmit power prior to AUTHORIZED state (first successful HBT response)? , the user choose n
2020-10-22T07:27:14.625Z - INFO - the question is : Did CBSD1 transmit only within the frequency range specified in its grantRequest message? please choose one of the answers :
2020-10-22T07:27:21.913Z - INFO - for the question : Did CBSD1 transmit only within the frequency range specified in its grantRequest message? , the user choose y
2020-10-22T07:27:25.408Z - INFO - The final result of the test : WINNF.FT.C.HBT.1 is - passed and :the additional comments for the current test are : n

```



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```

]
}
2020-10-22T07:29:37.038Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:29:37.038Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:29:37.038Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpild": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:29:37.108Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:29:37.118Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:29:37.118Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:29:45.684Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```

"measBandwidth": 10000000,
"measFrequency": 3610000000,
"measRcvdPower": -84
},
{
"measBandwidth": 10000000,
"measFrequency": 3620000000,
"measRcvdPower": -83
},
{
"measBandwidth": 10000000,
"measFrequency": 3630000000,
"measRcvdPower": -82
},
{
"measBandwidth": 10000000,
"measFrequency": 3640000000,
"measRcvdPower": -81
},
{
"measBandwidth": 10000000,
"measFrequency": 3650000000,
"measRcvdPower": -80
},
{
"measBandwidth": 10000000,
"measFrequency": 3660000000,
"measRcvdPower": -79
},
{
"measBandwidth": 10000000,
"measFrequency": 3670000000,
"measRcvdPower": -78
},
{
"measBandwidth": 10000000,
"measFrequency": 3680000000,
"measRcvdPower": -77
},
{
"measBandwidth": 10000000,

```

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```
"measFrequency": 3690000000,  
"measRcvdPower": -76  
}  
]  
}  
]  
]  
]  
2020-10-22T07:29:45.704Z - INFO - engine sent successfully, the response to CBRS : {  
"spectrumInquiryResponse": [  
{  
"availableChannel": [  
{  
"channelType": "GAA",  
"frequencyRange": {  
"highFrequency": 3570000000,  
"lowFrequency": 3550000000  
},  
"ruleApplied": "FCC_PART_96"  
}  
],  
"cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
"response": {  
"responseCode": 0  
}  
}  
]  
]  
}
```

```
2020-10-22T07:29:56.221Z - INFO - grant request from CBRS : {  
"grantRequest": [  
{  
"cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
"measReport": {  
"rcvdPowerMeasReports": [  
{  
"measBandwidth": 10000000,  
"measFrequency": 3550000000,  
"measRcvdPower": -90  
},  
{  
"measBandwidth": 10000000,
```



```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
"measRcvdPower": -81
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -80
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -79
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -78
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
  "measRcvdPower": -77
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3690000000,
  "measRcvdPower": -76
}
]
},
"operationParam": {
  "maxEirp": 31,
  "operationFrequencyRange": {
    "highFrequency": 3570000000,
    "lowFrequency": 3550000000
  }
}
}
}
]
}
2020-10-22T07:29:56.240Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
```




```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:29:56Z",
  "grantId": "397499577",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:30:02.795Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:30:02.815Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:33:22Z"
    }
  ]
}
2020-10-22T07:31:03.332Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T07:31:03.342Z - INFO - Time interval between two heartbeat request messages is: 60.538, limit
is: 65.0
2020-10-22T07:31:03.352Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:34:23Z"
    }
  ]
}
}
2020-10-22T07:32:03.819Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T07:32:03.819Z - INFO - Time interval between two heartbeat request messages is: 60.487, limit
is: 65.0
2020-10-22T07:32:03.829Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "397499577",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:35:23Z"
    }
  ]
}
}
}
2020-10-22T07:33:04.269Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "397499577",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:33:04.279Z - INFO - Time interval between two heartbeat request messages is: 60.46, limit is: 65.0

2020-10-22T07:33:04.289Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "397499577",
    "response": {
      "responseCode": 105
    },
    "transmitExpireTime": "2020-10-22T07:33:04Z"
  }
]
```

2020-10-22T07:33:06.084Z - INFO - arrived to nstep starting question answer session with the technician

2020-10-22T07:33:06.084Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 105? please choose one of the answers :

2020-10-22T07:33:29.299Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 105? , the user choose y

2020-10-22T07:33:36.431Z - INFO - The final result of the test : WINNF.FT.C.HBT.3 is - passed and :the additional comments for the current test are : n



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8.13 WINNF.FT.C.HBT.4

2020-10-22T07:34:27.779Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2020-10-22T07:34:27.779Z - INFO - the selected test from the user : WINNF.FT.C.HBT.4 is starting now

2020-10-22T07:34:35.859Z - INFO - registration request from CBRS : {

```
"registrationRequest": {
  {
    "airInterface": {
      "radioTechnology": "E_UTRA"
    },
    "callSign": "baicells",
    "cbssCategory": "B",
    "cbssSerialNumber": "4874251502",
    "cpiSignatureData": {
      "digitalSignature":
"ibQS4SgtuoDr_TGnQ_ejkziTj7ZM7DDEwmgplvb1lloM09mFN41xd6ObYaAhoaQ5zhXqZioJ5wM1MPUIKwB
5M_2ZrVpZv-
bX9hPdCQZBIUrOCitf42QHGWyBXvx8Ne3NGZPsoUnWfPw9QhignomQXBvRNng45vm1CkPY8c0yT2Q7o
u5bsX0DaWdqirPM-
JuYt2nP2q3U1oRfGJPdGfGdPhP3wRFrP5nMjZ6uqCHQ56jXCfKxNahrzakdhPwOoSdT0MVZwjQfZb_43Wv
7Ezyyt4f8O3vhyrk4ep7HmX4xGECpMO0uU4OZk3y2mX2Q5eBEXI9_XdRUMgl1QFEgw",
      "encodedCpiSignedData":
"eyJjYnNkU2VyaWFsTnVtYmVyljoiNDg3NDI1MTUwMmMlImZjY0lkljoiMkFHMzJFRzgwNTBTTExliwiaW5zdG
FsbGF0aW9uUGFyYW0iOnsiYW50ZW5uYUF6aW11dGgiOjAsImFudGVubmFCZWFtd2lkdGgiOjkwLzJhbnR
lbm5hRG93bnRpbHQiOjAsImFudGVubmFHYWUluOjOSwiYW50ZW5uYU1vZGVsljoiRXh0ZXJuYWwLzJhbnR
WlnaHQiOjQuMCwiaGVpZ2h0VHlwZSI6Imhvcml6b250YWxvY2N1cmFjeSI6MywiaW5kb29yRGVw
bG95bWVudCI6IjZmFsc2UsImxhdGI0dWRlIjo2LjhlLTUslmxbmdpdHVkZSI6LTAAuMDAwMTU4MDAwMDAwM
DAwMDAwMDMslncnRyY2FsQWNjdXJhY3kiOjN9LzI6bG93bnRpbHQiOjAsImFudGVubmFHYWUluOjOSwi
mNwaUlkljoiY3BmTlZlwiY3BpTmFtZSI6ImNQSv9Vc2VyaXZyEzEYmylmluc3RhbGxvZDZlXjAaWZpY2F0aW9uVG
ltZSI6ImJlMjAtMTAtMjMUMTU6MDM2NTJhbnRlcnRlbnRlc3Rlbm90Ij09",
      "protectedHeader": "eyJhbnRlc3Rlbm90Ij09JiJ1SUZl1NilslnR5cCI6ImkXVCJ9"
    },
    "fcclid": "2AG32EG8050AM11",
    "groupingParam": [
      {
        "groupid": "Baicells_01",
        "groupType": "INTERFERENCE_COORDINATION"
      }
    ],
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "Baicells_01"
  }
}
```



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```

]
}
2020-10-22T07:34:35.930Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:34:35.930Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:34:35.940Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:34:36.029Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:34:36.042Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:34:36.042Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:34:52.575Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
},  
{  
"measBandwidth": 10000000,
```



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```

    "measFrequency": 3690000000,
    "measRcvdPower": -76
  }
]
}
}
]
}
}
}
2020-10-22T07:34:52.595Z - INFO - engine sent successfully, the response to CBRS : {
"spectrumInquiryResponse": [
{
  "availableChannel": [
    {
      "channelType": "GAA",
      "frequencyRange": {
        "highFrequency": 3570000000,
        "lowFrequency": 3550000000
      },
      "ruleApplied": "FCC_PART_96"
    }
  ],
  "cbssid": "2AG32EG8050AM11Mock-SAS4874251502",
  "response": {
    "responseCode": 0
  }
}
]
}
}
}

```

```

2020-10-22T07:35:01.174Z - INFO - grant request from CBRS : {
"grantRequest": [
{
  "cbssid": "2AG32EG8050AM11Mock-SAS4874251502",
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,

```




```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:35:01Z",
  "grantId": "96831257",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:35:11.674Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:35:11.684Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:38:31Z"
    }
  ]
}
2020-10-22T07:36:12.154Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T07:36:12.154Z - INFO - Time interval between two heartbeat request messages is: 60.479, limit
is: 65.0
2020-10-22T07:36:12.164Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:39:32Z"
    }
  ]
}
}
2020-10-22T07:37:12.611Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T07:37:12.611Z - INFO - Time interval between two heartbeat request messages is: 60.457, limit
is: 65.0
2020-10-22T07:37:12.631Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:40:32Z"
    }
  ]
}
}
}
2020-10-22T07:38:13.118Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "96831257",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:38:13.118Z - INFO - Time interval between two heartbeat request messages is: 60.507, limit is: 65.0

2020-10-22T07:38:13.128Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "96831257",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-10-22T07:41:33Z"
  }
]
```

2020-10-22T07:39:13.594Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "96831257",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:39:13.594Z - INFO - Time interval between two heartbeat request messages is: 60.476, limit is: 65.0

2020-10-22T07:39:13.602Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "96831257",
    "response": {
      "responseCode": 0
    }
  }
]
```



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```

    },
    "transmitExpireTime": "2020-10-22T07:42:33Z"
  }
]
}
2020-10-22T07:40:14.051Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-10-22T07:40:14.061Z - INFO - Time interval between two heartbeat request messages is: 60.457, limit is: 65.0
2020-10-22T07:40:14.071Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "96831257",
      "response": {
        "responseCode": 500
      },
      "transmitExpireTime": "2020-10-22T07:40:14Z"
    }
  ]
}
2020-10-22T07:40:15.823Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:40:15.823Z - INFO - the question is : Did the CBSD1 stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 500? please choose one of the answers :
2020-10-22T07:40:36.650Z - INFO - for the question : Did the CBSD1 stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 500? , the user choose y
2020-10-22T07:40:39.334Z - INFO - The final result of the test : WINNF.FT.C.HBT.4 is - passed and :the additional comments for the current test are : n

```



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```

]
}
2020-10-22T07:41:50.634Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:41:50.634Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:41:50.634Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:41:50.719Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:41:50.719Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:41:50.719Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:41:59.280Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```

"measBandwidth": 10000000,
"measFrequency": 3610000000,
"measRcvdPower": -84
},
{
"measBandwidth": 10000000,
"measFrequency": 3620000000,
"measRcvdPower": -83
},
{
"measBandwidth": 10000000,
"measFrequency": 3630000000,
"measRcvdPower": -82
},
{
"measBandwidth": 10000000,
"measFrequency": 3640000000,
"measRcvdPower": -81
},
{
"measBandwidth": 10000000,
"measFrequency": 3650000000,
"measRcvdPower": -80
},
{
"measBandwidth": 10000000,
"measFrequency": 3660000000,
"measRcvdPower": -79
},
{
"measBandwidth": 10000000,
"measFrequency": 3670000000,
"measRcvdPower": -78
},
{
"measBandwidth": 10000000,
"measFrequency": 3680000000,
"measRcvdPower": -77
},
{
"measBandwidth": 10000000,

```

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```
"measFrequency": 3690000000,
"measRcvdPower": -76
}
]
}
}
]
}
}
2020-10-22T07:41:59.301Z - INFO - engine sent successfully, the response to CBRS : {
"spectrumInquiryResponse": [
{
"availableChannel": [
{
"channelType": "GAA",
"frequencyRange": {
"highFrequency": 3570000000,
"lowFrequency": 3550000000
},
"ruleApplied": "FCC_PART_96"
}
],
"cbid": "2AG32EG8050AM11Mock-SAS4874251502",
"response": {
"responseCode": 0
}
}
]
}
}
```

```
2020-10-22T07:42:05.914Z - INFO - grant request from CBRS : {
"grantRequest": [
{
"cbid": "2AG32EG8050AM11Mock-SAS4874251502",
"measReport": {
"rcvdPowerMeasReports": [
{
"measBandwidth": 10000000,
"measFrequency": 3550000000,
"measRcvdPower": -90
},
{
"measBandwidth": 10000000,
```



```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
"measRcvdPower": -81
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -80
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -79
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -78
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
  "measRcvdPower": -77
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3690000000,
  "measRcvdPower": -76
}
]
},
"operationParam": {
  "maxEirp": 31,
  "operationFrequencyRange": {
    "highFrequency": 3570000000,
    "lowFrequency": 3550000000
  }
}
}
}
]
}
}
}
}
2020-10-22T07:42:05.934Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:42:05Z",
  "grantId": "928602634",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:42:12.388Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "928602634",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:42:12.407Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "928602634",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2020-10-22T07:42:12Z"
    }
  ]
}
2020-10-22T07:42:40.953Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "928602634",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T07:42:40.953Z - INFO - Time interval between two heartbeat request messages is: 28.566, limit
is: 65.0
2020-10-22T07:42:40.973Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "928602634",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2020-10-22T07:42:40Z"
    }
  ]
}
}
2020-10-22T07:42:42.374Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:42:42.374Z - INFO - the question is : Did the CBSD transmit at any time during the test?
please choose one of the answers :
2020-10-22T07:42:52.473Z - INFO - for the question : Did the CBSD transmit at any time during the test? ,
the user choose n
2020-10-22T07:42:54.345Z - INFO - The final result of the test : WINNF.FT.C.HBT.5 is - passed and :the
additional comments for the current test are : n

```



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```

]
}
2020-10-22T07:44:14.812Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:44:14.812Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:44:14.812Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpild": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:44:14.903Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:44:14.913Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:44:14.913Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:44:23.433Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
},  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
},  
{  
"measBandwidth": 10000000,
```



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```
"measFrequency": 3690000000,  
"measRcvdPower": -76  
}  
]  
}  
}  
]  
}  
] }  
2020-10-22T07:44:23.451Z - INFO - engine sent successfully, the response to CBRS : {  
"spectrumInquiryResponse": [  
{  
"availableChannel": [  
{  
"channelType": "GAA",  
"frequencyRange": {  
"highFrequency": 3570000000,  
"lowFrequency": 3550000000  
},  
"ruleApplied": "FCC_PART_96"  
}  
],  
"cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
"response": {  
"responseCode": 0  
}  
}  
]  
]  
}
```

```
2020-10-22T07:44:30.009Z - INFO - grant request from CBRS : {  
"grantRequest": [  
{  
"cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
"measReport": {  
"rcvdPowerMeasReports": [  
{  
"measBandwidth": 10000000,  
"measFrequency": 3550000000,  
"measRcvdPower": -90  
},  
{  
"measBandwidth": 10000000,
```




```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:44:30Z",
  "grantId": "999698693",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:44:36.533Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:44:36.543Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:47:56Z"
    }
  ]
}
2020-10-22T07:45:37.007Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T07:45:37.016Z - INFO - Time interval between two heartbeat request messages is: 60.474, limit
is: 65.0
2020-10-22T07:45:37.030Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:48:57Z"
    }
  ]
}
}
2020-10-22T07:46:37.466Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T07:46:37.476Z - INFO - Time interval between two heartbeat request messages is: 60.458, limit
is: 65.0
2020-10-22T07:46:37.486Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "999698693",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:49:57Z"
    }
  ]
}
}
2020-10-22T07:47:37.934Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "999698693",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:47:37.934Z - INFO - Time interval between two heartbeat request messages is: 60.468, limit is: 65.0

2020-10-22T07:47:37.944Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "999698693",
    "response": {
      "responseCode": 501
    },
    "transmitExpireTime": "2020-10-22T07:47:37Z"
  }
]
```

2020-10-22T07:48:05.167Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "999698693",
    "grantRenew": false,
    "operationState": "GRANTED"
  }
]
```

2020-10-22T07:48:05.177Z - INFO - Time interval between two heartbeat request messages is: 27.234, limit is: 65.0

2020-10-22T07:48:05.187Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "999698693",
    "response": {
      "responseCode": 501
    }
  }
]
```



```

    },
    "transmitExpireTime": "2020-10-22T07:48:05Z"
  }
]
}

```

2020-10-22T07:48:06.598Z - INFO - arrived to nstep starting question answer session with the technician
 2020-10-22T07:48:06.598Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 501? please choose one of the answers :
 2020-10-22T07:48:22.368Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 501? , the user choose y
 2020-10-22T07:48:25.895Z - INFO - The final result of the test : WINNF.FT.C.HBT.6 is - passed and :the additional comments for the current test are : n




```

]
}
2020-10-22T07:49:52.750Z - INFO - Registration message contains cpiSignatureData
2020-10-22T07:49:52.750Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T07:49:52.750Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpild": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T07:49:52.848Z - INFO - verified signature on cpiSignatureData
2020-10-22T07:49:52.858Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T07:49:52.868Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T07:49:59.372Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
,  
{  
"measBandwidth": 10000000,
```



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```
        "measFrequency": 3690000000,  
        "measRcvdPower": -76  
    }  
  ]  
}  
]  
}  
] }  
}
```

2020-10-22T07:49:59.392Z - INFO - engine sent successfully, the response to CBRS : {
 "spectrumInquiryResponse": [
 {
 "availableChannel": [
 {
 "channelType": "GAA",
 "frequencyRange": {
 "highFrequency": 3570000000,
 "lowFrequency": 3550000000
 },
 "ruleApplied": "FCC_PART_96"
 }
],
 "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
 "response": {
 "responseCode": 0
 }
 }
]
}

2020-10-22T07:50:05.913Z - INFO - grant request from CBRS : {
 "grantRequest": [
 {
 "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
 "measReport": {
 "rcvdPowerMeasReports": [
 {
 "measBandwidth": 10000000,
 "measFrequency": 3550000000,
 "measRcvdPower": -90
 },
 {
 "measBandwidth": 10000000,



```
"measFrequency": 3560000000,  
"measRcvdPower": -89  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3570000000,  
"measRcvdPower": -88  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3580000000,  
"measRcvdPower": -87  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3590000000,  
"measRcvdPower": -86  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3600000000,  
"measRcvdPower": -85  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,
```




```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T07:50:05Z",
  "grantId": "428413696",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T07:50:12.413Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T07:50:12.423Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:53:32Z"
    }
  ]
}
2020-10-22T07:51:12.888Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T07:51:12.888Z - INFO - Time interval between two heartbeat request messages is: 60.476, limit
is: 65.0
2020-10-22T07:51:12.898Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:54:32Z"
    }
  ]
}
}
2020-10-22T07:52:13.369Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T07:52:13.369Z - INFO - Time interval between two heartbeat request messages is: 60.481, limit
is: 65.0
2020-10-22T07:52:13.380Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "428413696",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T07:55:33Z"
    }
  ]
}
}
2020-10-22T07:53:13.826Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "428413696",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-10-22T07:53:13.826Z - INFO - Time interval between two heartbeat request messages is: 60.457, limit is: 65.0

2020-10-22T07:53:13.846Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "428413696",
    "response": {
      "responseCode": 502
    },
    "transmitExpireTime": "2020-10-22T07:53:13Z"
  }
]
```

2020-10-22T07:53:35.102Z - INFO - relinquishment request from CBRS : {

```
"relinquishmentRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "428413696"
  }
]
```

2020-10-22T07:53:35.122Z - INFO - engine sent successfully, the response to CBRS : {

```
"relinquishmentResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "428413696",
    "response": {
      "responseCode": 0
    }
  }
]
```



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2020-10-22T07:53:36.999Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T07:53:36.999Z - INFO - the question is : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 502? please choose one of the answers :
2020-10-22T07:53:55.657Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 502? , the user choose y
2020-10-22T07:53:57.736Z - INFO - The final result of the test : WINNF.FT.C.HBT.7 is - passed and :the additional comments for the current test are : n




```

]
}
2020-10-22T08:03:14.492Z - INFO - Registration message contains cpiSignatureData
2020-10-22T08:03:14.492Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T08:03:14.492Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T08:03:14.576Z - INFO - verified signature on cpiSignatureData
2020-10-22T08:03:14.586Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T08:03:14.586Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T08:03:21.242Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
,  
{  
"measBandwidth": 10000000,
```



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```

    "measFrequency": 3690000000,
    "measRcvdPower": -76
  }
]
}
]
}
]
}
2020-10-22T08:03:21.262Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3570000000,
            "lowFrequency": 3550000000
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```

```

2020-10-22T08:03:27.760Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "measReport": {
        "rcvdPowerMeasReports": [
          {
            "measBandwidth": 10000000,
            "measFrequency": 3550000000,
            "measRcvdPower": -90
          },
          {
            "measBandwidth": 10000000,

```



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```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T08:03:27Z",
  "grantId": "897765313",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T08:03:34.309Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "897765313",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
}
2020-10-22T08:06:54.331Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "897765313",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2020-10-22T08:06:54Z"
    }
  ]
}
}
2020-10-22T08:06:56.055Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T08:06:56.055Z - INFO - the question is : Were there RF transmissions from the CBSD during the test? please choose one of the answers :
2020-10-22T08:07:05.164Z - INFO - for the question : Were there RF transmissions from the CBSD during the test? , the user choose n
2020-10-22T08:07:06.766Z - INFO - The final result of the test : WINNF.FT.C.HBT.9 is - passed and :the additional comments for the current test are : n
```



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8.18 WINNF.FT.C.HBT.10

2020-10-22T08:07:49.285Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2020-10-22T08:07:49.285Z - INFO - the selected test from the user : WINNF.FT.C.HBT.10 is starting now

2020-10-22T08:08:26.039Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "E_UTRA"
    },
    "callSign": "baicells",
    "cbsdCategory": "B",
    "cbsdSerialNumber": "4874251502",
    "cpiSignatureData": {
      "digitalSignature":
"ibQS4SgtuoDr_TGnQ_ejkziTtj7ZM7DDEwmgplvb1lloM09mFN41xd6ObYaAhoaQ5zhXqZioJ5wM1MPUIKwB
5M_2ZrVpzv-
bX9hPdCqzBIUrOCitf42QHGGWYbXvx8Ne3NGZPsoUnWFpW9QhignomQXBvRN45vm1CkPY8c0yT2Q7o
u5bsX0DaWdqirPM-
JuYt2nP2q3U1oRfGJPdIfGdPhP3wRFrpR5nMjZ6uqCHQ56jXCfKxNahrzakdhPwOoSdT0MVZwjjQfZb_43Wv
7Eezyyt4f8O3vhyrk4ep7HmX4xGECpM00uU4OZk3y2mX2Q5eBEXI9_XdRUMg1L1QFEgw",
      "encodedCpiSignedData":
"eyJjYnNkU2VyaWFsTnVtYmVyljoiNDg3NDI1MTUwMlslmZjY0IkloiMkFHMzJFRzgwNTBBTTEExliwiaW5zdG
FsbGF0aW9uUGFyYW0iOansiYW50ZW5uYUF6aW11dGgiOjAsImFudGVubmFCZWFtd2lkdGgiOjkwLjBhbnR
lbm5hRG93bnRpbHQiOjAsImFudGVubmFHYWUluJoxOSwiYW50ZW5uYU1vZGVsljoiRXh0ZXJuYWwLjCJoZ
WlnaHQiOjQuMCwiaGVpZ2h0VHlwZSI6IkFHTCIsImhvcm16b250YWxBY2N1cmFjeSI6MywiaW5kb29yRGVw
bG95bWVudCI6ZmFsc2UsImxhdGI0dWRlljo2LjhlLTUsImxvbmVudHVkZSI6LTUuMDAwMDAwMDAwMDAw
MDAwMDAwMDMslncnRpY2FsQWVudXJhY3kiOjN9LCJwcm9mZXNzaW9uYWxJbnN0YWxsZXJEYXRhIjp7I
mNwaUlkljoiY3BpMTlziIiwIY3BpTmFtZSI6IkNQSv9Vc2VyXzEyMyIsImIuc3RhbGxkZDZjX0aWZpY2F0aW9uVG
ltZSI6IjIAG32EG8050AM11",
      "protectedHeader": "eyJhbGciOiJSUzU1NiIsInR5cCI6IkpXVCJ9"
    },
    "fcclId": "2AG32EG8050AM11",
    "groupingParam": [
      {
        "groupId": "Baicells_01",
        "groupType": "INTERFERENCE_COORDINATION"
      }
    ],
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "Baicells_01"
  }
]
```



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```

]
}
2020-10-22T08:08:26.088Z - INFO - Registration message contains cpiSignatureData
2020-10-22T08:08:26.088Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T08:08:26.088Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T08:08:26.246Z - INFO - verified signature on cpiSignatureData
2020-10-22T08:08:26.256Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T08:08:26.256Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T08:08:56.803Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```

"measBandwidth": 10000000,
"measFrequency": 3610000000,
"measRcvdPower": -84
},
{
"measBandwidth": 10000000,
"measFrequency": 3620000000,
"measRcvdPower": -83
},
{
"measBandwidth": 10000000,
"measFrequency": 3630000000,
"measRcvdPower": -82
},
{
"measBandwidth": 10000000,
"measFrequency": 3640000000,
"measRcvdPower": -81
},
{
"measBandwidth": 10000000,
"measFrequency": 3650000000,
"measRcvdPower": -80
},
{
"measBandwidth": 10000000,
"measFrequency": 3660000000,
"measRcvdPower": -79
},
{
"measBandwidth": 10000000,
"measFrequency": 3670000000,
"measRcvdPower": -78
},
{
"measBandwidth": 10000000,
"measFrequency": 3680000000,
"measRcvdPower": -77
},
{
"measBandwidth": 10000000,

```



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```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T08:09:03Z",
  "grantId": "362348121",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T08:09:11.882Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T08:09:11.892Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:12:31Z"
    }
  ]
}
2020-10-22T08:10:12.358Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T08:10:12.368Z - INFO - Time interval between two heartbeat request messages is: 60.475, limit
is: 65.0
2020-10-22T08:10:12.378Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:13:32Z"
    }
  ]
}
}
2020-10-22T08:11:12.836Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-10-22T08:11:12.846Z - INFO - Time interval between two heartbeat request messages is: 60.479, limit
is: 65.0
2020-10-22T08:11:12.846Z - INFO - LAST HBT RESPONSE THAT SET TRANSMIT_EXPIRE_TIME WAS
AT: 2020-10-22 08:10:12.358000
2020-10-22T08:14:32.867Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "362348121",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2020-10-22T08:14:32Z"
    }
  ]
}
}

```



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}

2020-10-22T08:14:34.489Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T08:14:34.489Z - INFO - the question is : Did the CBSD stop RF transmissions within (transmitExpireTime + 60seconds) of last valid heartbeat response? please choose one of the answers :
2020-10-22T08:14:48.051Z - INFO - for the question : Did the CBSD stop RF transmissions within (transmitExpireTime + 60seconds) of last valid heartbeat response? , the user choose y
2020-10-22T08:14:50.250Z - INFO - The final result of the test : WINNF.FT.C.HBT.10 is - passed and :the additional comments for the current test are : n



8.19 WINNF.FT.C.RLQ.1

2020-10-22T08:15:23.117Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
 2020-10-22T08:15:23.117Z - INFO - the selected test from the user : WINNF.FT.C.RLQ.1 is starting now
 2020-10-22T08:15:52.816Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "E_UTRA"
    },
    "callSign": "baicells",
    "cbsdCategory": "B",
    "cbsdSerialNumber": "4874251502",
    "cpiSignatureData": {
      "digitalSignature":
"ibQS4SgtuoDr_TGnQ_ejkziTj7ZM7DDEwmgplvb1lloM09mFN41xd6ObYaAhoaQ5zhXqZioJ5wM1MPUIKwB
5M_2ZrVpzv-
bX9hPdCQzBIUrOCitf42QHGQWyBXvx8Ne3NGZPsoUnWFpW9QhignomQXBvRNng45vm1CkPY8c0yT2Q7o
u5bsX0DaWdqirPM-
JuYt2nP2q3U1oRfGJPdifGdPhP3wRFrpR5nMjZ6uqCHQ56jXCfKxNahrzakdhPwOoSdT0MVZwjJqfZb_43Wv
7Eezyt4f8O3vhyrk4ep7HmX4xGECpM00uU4OZk3y2mX2Q5eBEXI9_XdRUMg1L1QFEgw",
      "encodedCpiSignedData":
"eyJjYnNkU2VyaWFsTnVtYmVyljoiNDg3NDI1MTUwMlIsImZjY0IkljoiMkFHMzJFRzgwNTBBTTEExliwiaW5zdG
FsbGF0aW9uUGFyYW0iOansiYW50ZW5uYUF6aW11dGgiOjAsImFudGVubmFCZWFtd2lkdGgiOjkwLCJhbnR
lbm5hRG93bnRpbHQiOjAsImFudGVubmFHYWUluXjoxOSwiYW50ZW5uYU1vZGVsljoiRXh0ZXJlYmVwLjZlZ
WlnaHQiOjQuMCwiaGVpZ2h0VHlwZSI6IkFHTClSlmhvcml6b250YWxkY2N1cmFjeSI6MywiaW5kb29yRGVw
bG95bWVudCI6ZmFsc2UsImxhdG10dWRlljo2LjhlLTUsImxvbmVudHVkZSI6LTAuMDAwMTU4MDAwMDAwM
DAwMDAwMDMslncnRyY2FsQWNjdXJhY3kiOjN9LCJwcm9mZmZlbnNzaW9uYWxkbnN0YWxsZXJlYXRhIjpw
mNwaUlkljoiY3BpMTIzIiwieY3BpTmFtZSI6IkNQSv9Vc2VyXzEyMyIsImuc3RhbGxkZDZlX0aWZpY2F0aW9uVG
ltZSI6IjIwMjAtMTAtMjUyMDU2MDM6NTJhbn19",
      "protectedHeader": "eyJhbGciOiJlSUZl1NiIsInR5cCI6IkpXVCJ9"
    },
    "fcclid": "2AG32EG8050AM11",
    "groupingParam": [
      {
        "groupId": "Baicells_01",
        "groupType": "INTERFERENCE_COORDINATION"
      }
    ],
    "measCapability": [
      "RECEIVED_POWER_WITHOUT_GRANT"
    ],
    "userId": "Baicells_01"
  }
]
```



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```

]
}
2020-10-22T08:15:52.867Z - INFO - Registration message contains cpiSignatureData
2020-10-22T08:15:52.867Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T08:15:52.867Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T08:15:52.960Z - INFO - verified signature on cpiSignatureData
2020-10-22T08:15:52.970Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T08:15:52.980Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T08:15:59.502Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,  
"measRcvdPower": -81  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3650000000,  
"measRcvdPower": -80  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3660000000,  
"measRcvdPower": -79  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3670000000,  
"measRcvdPower": -78  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3680000000,  
"measRcvdPower": -77  
,  
{  
"measBandwidth": 10000000,
```



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```
"measFrequency": 3690000000,  
"measRcvdPower": -76  
}  
]  
}  
}  
]  
}  
] }  
2020-10-22T08:15:59.542Z - INFO - engine sent successfully, the response to CBRS : {  
"spectrumInquiryResponse": [  
{  
  "availableChannel": [  
    {  
      "channelType": "GAA",  
      "frequencyRange": {  
        "highFrequency": 3570000000,  
        "lowFrequency": 3550000000  
      },  
      "ruleApplied": "FCC_PART_96"  
    }  
  ],  
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
  "response": {  
    "responseCode": 0  
  }  
}  
]  
]  
}
```

```
2020-10-22T08:16:08.048Z - INFO - grant request from CBRS : {  
"grantRequest": [  
{  
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",  
  "measReport": {  
    "rcvdPowerMeasReports": [  
      {  
        "measBandwidth": 10000000,  
        "measFrequency": 3550000000,  
        "measRcvdPower": -90  
      },  
      {  
        "measBandwidth": 10000000,
```



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```
"measFrequency": 3560000000,  
"measRcvdPower": -89  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3570000000,  
"measRcvdPower": -88  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3580000000,  
"measRcvdPower": -87  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3590000000,  
"measRcvdPower": -86  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3600000000,  
"measRcvdPower": -85  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3610000000,  
"measRcvdPower": -84  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3620000000,  
"measRcvdPower": -83  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3630000000,  
"measRcvdPower": -82  
,  
{  
"measBandwidth": 10000000,  
"measFrequency": 3640000000,
```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T08:16:08Z",
  "grantId": "394725359",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T08:16:18.536Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T08:16:18.555Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:19:38Z"
    }
  ]
}
2020-10-22T08:17:19.039Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T08:17:19.039Z - INFO - Time interval between two heartbeat request messages is: 60.503, limit
is: 65.0
2020-10-22T08:17:19.058Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:20:39Z"
    }
  ]
}
}
2020-10-22T08:18:19.536Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359"
    }
  ]
}
}
2020-10-22T08:18:19.546Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "394725359",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T08:18:21.089Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T08:18:21.089Z - INFO - the question is : Did CBSD1 cease RF transmission before receipt of
Relinquishment Request by Test Harness? please choose one of the answers :
2020-10-22T08:18:28.086Z - INFO - for the question : Did CBSD1 cease RF transmission before receipt of
Relinquishment Request by Test Harness? , the user choose y

```



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2020-10-22T08:18:40.687Z - INFO - The final result of the test : WINNF.FT.C.RLQ.1 is - passed and :the additional comments for the current test are : n



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```

]
}
2020-10-22T08:20:23.345Z - INFO - Registration message contains cpiSignatureData
2020-10-22T08:20:23.345Z - INFO - protectedHeader = {u'alg': u'RS256', u'typ': u'JWT'}
2020-10-22T08:20:23.345Z - INFO - encodedCpiSignedData contents = {
  "installationParam": {
    "antennaAzimuth": 0,
    "heightType": "AGL",
    "antennaModel": "Integral",
    "longitude": -0.00015800000000000002,
    "height": 4.0,
    "indoorDeployment": false,
    "latitude": 6.8e-05,
    "horizontalAccuracy": 3,
    "antennaDowntilt": 0,
    "antennaBeamwidth": 90,
    "antennaGain": 14,
    "verticalAccuracy": 3
  },
  "fccId": "2AG32EG8050AM11",
  "professionalInstallerData": {
    "cpiName": "CPI_User_123",
    "installCertificationTime": "2020-10-22T15:03:52Z",
    "cpId": "cpi123"
  },
  "cbsdSerialNumber": "4874251502"
}
2020-10-22T08:20:23.437Z - INFO - verified signature on cpiSignatureData
2020-10-22T08:20:23.437Z - INFO - cpiSignatureData data successfully validated against jsonschema
2020-10-22T08:20:23.447Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
2020-10-22T08:20:29.986Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "inquiredSpectrum": [
    {
      "highFrequency": 3570000000,
      "lowFrequency": 3550000000
    }
  ],
  "measReport": {
    "rcvdPowerMeasReports": [
      {
        "measBandwidth": 10000000,
        "measFrequency": 3550000000,
        "measRcvdPower": -90
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3560000000,
        "measRcvdPower": -89
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3570000000,
        "measRcvdPower": -88
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3580000000,
        "measRcvdPower": -87
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3590000000,
        "measRcvdPower": -86
      },
      {
        "measBandwidth": 10000000,
        "measFrequency": 3600000000,
        "measRcvdPower": -85
      }
    ]
  }
}
```



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```

"measBandwidth": 10000000,
"measFrequency": 3610000000,
"measRcvdPower": -84
},
{
"measBandwidth": 10000000,
"measFrequency": 3620000000,
"measRcvdPower": -83
},
{
"measBandwidth": 10000000,
"measFrequency": 3630000000,
"measRcvdPower": -82
},
{
"measBandwidth": 10000000,
"measFrequency": 3640000000,
"measRcvdPower": -81
},
{
"measBandwidth": 10000000,
"measFrequency": 3650000000,
"measRcvdPower": -80
},
{
"measBandwidth": 10000000,
"measFrequency": 3660000000,
"measRcvdPower": -79
},
{
"measBandwidth": 10000000,
"measFrequency": 3670000000,
"measRcvdPower": -78
},
{
"measBandwidth": 10000000,
"measFrequency": 3680000000,
"measRcvdPower": -77
},
{
"measBandwidth": 10000000,

```



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```
"measFrequency": 3690000000,
"measRcvdPower": -76
}
]
}
]
}
]
}
2020-10-22T08:20:30.006Z - INFO - engine sent successfully, the response to CBRS : {
"spectrumInquiryResponse": [
{
"availableChannel": [
{
"channelType": "GAA",
"frequencyRange": {
"highFrequency": 3570000000,
"lowFrequency": 3550000000
},
"ruleApplied": "FCC_PART_96"
}
],
"cbid": "2AG32EG8050AM11Mock-SAS4874251502",
"response": {
"responseCode": 0
}
}
]
}
]
}
```

```
2020-10-22T08:20:36.509Z - INFO - grant request from CBRS : {
"grantRequest": [
{
"cbid": "2AG32EG8050AM11Mock-SAS4874251502",
"measReport": {
"rcvdPowerMeasReports": [
{
"measBandwidth": 10000000,
"measFrequency": 3550000000,
"measRcvdPower": -90
},
{
"measBandwidth": 10000000,
```



```

    "measFrequency": 3560000000,
    "measRcvdPower": -89
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3570000000,
    "measRcvdPower": -88
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3580000000,
    "measRcvdPower": -87
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3590000000,
    "measRcvdPower": -86
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3600000000,
    "measRcvdPower": -85
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3610000000,
    "measRcvdPower": -84
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3620000000,
    "measRcvdPower": -83
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3630000000,
    "measRcvdPower": -82
  },
  {
    "measBandwidth": 10000000,
    "measFrequency": 3640000000,

```





```
"measRcvdPower": -81
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3650000000,
  "measRcvdPower": -80
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3660000000,
  "measRcvdPower": -79
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3670000000,
  "measRcvdPower": -78
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3680000000,
  "measRcvdPower": -77
},
{
  "measBandwidth": 10000000,
  "measFrequency": 3690000000,
  "measRcvdPower": -76
}
]
},
"operationParam": {
  "maxEirp": 31,
  "operationFrequencyRange": {
    "highFrequency": 3570000000,
    "lowFrequency": 3550000000
  }
}
}
]
}
2020-10-22T08:20:36.529Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
```




```
{
  "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "channelType": "GAA",
  "grantExpireTime": "2020-10-29T08:20:36Z",
  "grantId": "221370438",
  "heartbeatInterval": 60,
  "response": {
    "responseCode": 0
  }
}
]
}
2020-10-22T08:20:43.056Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2020-10-22T08:20:43.075Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:24:03Z"
    }
  ]
}
2020-10-22T08:21:43.533Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```



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```

}
]
}
2020-10-22T08:21:43.543Z - INFO - Time interval between two heartbeat request messages is: 60.477, limit
is: 65.0
2020-10-22T08:21:43.553Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-10-22T08:25:03Z"
    }
  ]
}
}
2020-10-22T08:22:44.020Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438"
    }
  ]
}
}
2020-10-22T08:22:44.030Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
}
}
2020-10-22T08:22:46.502Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438"
    }
  ]
}
}
}

```



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```

]
}
2020-10-22T08:22:46.512Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "221370438",
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```

```

2020-10-22T08:22:58.959Z - INFO - deregistration request from CBRS : {
  "deregistrationRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502"
    }
  ]
}

```

```

2020-10-22T08:22:58.967Z - INFO - engine sent successfully, the response to CBRS : {
  "deregistrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```

2020-10-22T08:23:00.069Z - INFO - arrived to nstep starting question answer session with the technician
2020-10-22T08:23:00.069Z - INFO - the question is : Did CBSD1 cease RF transmission before receipt of Relinquishment request (if sent) or Deregistration request at Test Harness? please choose one of the answers :

2020-10-22T08:23:06.016Z - INFO - for the question : Did CBSD1 cease RF transmission before receipt of Relinquishment request (if sent) or Deregistration request at Test Harness? , the user choose y

2020-10-22T08:23:07.644Z - INFO - The final result of the test : WINNF.FT.C.DRG.1 is - passed and :the additional comments for the current test are : n



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```

}
]
}
2020-11-23T03:34:04.063Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
]
}
2020-11-23T03:34:10.888Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "operationParam": {
        "maxEirp": 33,
        "operationFrequencyRange": {
          "highFrequency": 3570000000,
          "lowFrequency": 3550000000
        }
      }
    }
  ]
}
]
}
2020-11-23T03:34:10.898Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "channelType": "GAA",
      "grantExpireTime": "2020-11-30T03:34:10Z",
      "grantId": "559692399",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
]
}

```



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2020-11-23T03:34:20.769Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "GRANTED"
  }
]
```

2020-11-23T03:34:20.779Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:37:40Z"
  }
]
```

2020-11-23T03:35:21.605Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-11-23T03:35:21.615Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:38:41Z"
  }
]
```



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```

}
]
}
2020-11-23T03:36:22.674Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:36:22.691Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:39:42Z"
    }
  ]
}
2020-11-23T03:37:23.141Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:37:23.161Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {

```



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```

        "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:40:43Z"
}
]
}
2020-11-23T03:38:23.661Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
            "grantId": "559692399",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2020-11-23T03:38:23.671Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
            "grantId": "559692399",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2020-11-23T03:41:43Z"
        }
    ]
}
2020-11-23T03:39:24.180Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
            "grantId": "559692399",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2020-11-23T03:39:24.200Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {

```



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```

    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:42:44Z"
  }
]
}
2020-11-23T03:40:25.479Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:40:25.499Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:43:45Z"
    }
  ]
}
2020-11-23T03:41:26.885Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```



2020-11-23T03:41:26.894Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:44:46Z"
  }
]
```

2020-11-23T03:42:28.233Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```

2020-11-23T03:42:28.243Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [
  {
    "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-23T03:45:48Z"
  }
]
```

2020-11-23T03:43:29.684Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [
  {
    "cbstdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
```



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```

}
]
}
2020-11-23T03:43:29.694Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:46:49Z"
    }
  ]
}
2020-11-23T03:44:31.118Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:44:31.128Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:47:51Z"
    }
  ]
}
2020-11-23T03:45:32.545Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",

```



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```

    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
}
2020-11-23T03:45:32.563Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:48:52Z"
    }
  ]
}
2020-11-23T03:46:33.960Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:46:33.969Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:49:53Z"
    }
  ]
}
2020-11-23T03:47:35.394Z - INFO - heartbeat request from CBRS : {

```



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```
"heartbeatRequest": [
  {
    "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
    "grantId": "559692399",
    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
}
2020-11-23T03:47:35.404Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:50:55Z"
    }
  ]
}
}
2020-11-23T03:48:37.233Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-11-23T03:48:37.243Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:51:57Z"
    }
  ]
}
}
```



```

]
}
2020-11-23T03:49:38.819Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:49:38.829Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:52:58Z"
    }
  ]
}
2020-11-23T03:50:40.490Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:50:40.500Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      }
    }
  ]
}

```



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```

    },
    "transmitExpireTime": "2020-11-23T03:54:00Z"
  }
]
}
2020-11-23T03:51:41.056Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:51:41.066Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-23T03:55:01Z"
    }
  ]
}
2020-11-23T03:52:41.660Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "559692399",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-23T03:52:41.670Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",

```



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```
"grantId": "559692399",
"response": {
  "responseCode": 0
},
"transmitExpireTime": "2020-11-23T03:56:01Z"
}
]
}
2020-11-23T03:53:42.221Z - INFO - heartbeat request from CBRS : {
"heartbeatRequest": [
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "grantId": "559692399",
  "grantRenew": false,
  "operationState": "AUTHORIZED"
}
]
}
2020-11-23T03:53:42.227Z - INFO - engine sent successfully, the response to CBRS : {
"heartbeatResponse": [
{
  "cbsId": "2AG32EG8050AM11Mock-SAS4874251502",
  "grantId": "559692399",
  "response": {
    "responseCode": 0
  },
  "transmitExpireTime": "2020-11-23T03:57:02Z"
}
]
}
```




```

}
2020-11-25T03:10:53.555Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2020-11-25T03:11:02.101Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "inquiredSpectrum": [
        {
          "highFrequency": 3570000000,
          "lowFrequency": 3550000000
        }
      ]
    }
  ]
}
2020-11-25T03:11:02.128Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code is 0
2020-11-25T03:11:02.128Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3570000000,
            "lowFrequency": 3550000000
          },
          "maxEirp": 23,
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "response": {

```



```

    "responseCode": 0
  }
}
]
}
2020-11-25T03:11:39.188Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "operationParam": {
        "maxEirp": 23,
        "operationFrequencyRange": {
          "highFrequency": 3570000000,
          "lowFrequency": 3550000000
        }
      }
    }
  ]
}
2020-11-25T03:11:39.198Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "channelType": "GAA",
      "grantExpireTime": "2020-12-02T03:11:39Z",
      "grantId": "254535729",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2020-11-25T03:11:48.426Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}

```



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```
]
}
2020-11-25T03:11:48.446Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:15:08Z"
    }
  ]
}
```

```
2020-11-25T03:12:49.861Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```

```
2020-11-25T03:12:49.871Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:16:09Z"
    }
  ]
}
```

```
2020-11-25T03:13:50.667Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",

```



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```

    "grantRenew": false,
    "operationState": "AUTHORIZED"
  }
]
}
2020-11-25T03:13:50.677Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:17:10Z"
    }
  ]
}
2020-11-25T03:14:51.213Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:14:51.223Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:18:11Z"
    }
  ]
}
2020-11-25T03:15:51.684Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "grantId": "254535729",
  "grantRenew": false,
  "operationState": "AUTHORIZED"
}
]
}
2020-11-25T03:15:51.694Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:19:11Z"
    }
  ]
}
}
2020-11-25T03:16:52.190Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-11-25T03:16:52.207Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:20:12Z"
    }
  ]
}
]
```



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```

}
2020-11-25T03:17:52.770Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:17:52.780Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:21:12Z"
    }
  ]
}
2020-11-25T03:18:53.357Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:18:53.372Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
    }
  ]
}

```



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```
"transmitExpireTime": "2020-11-25T03:22:13Z"
}
]
}
2020-11-25T03:19:53.805Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:19:53.815Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:23:13Z"
    }
  ]
}
2020-11-25T03:20:54.322Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:20:54.332Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
```




```

    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2020-11-25T03:24:14Z"
  }
]
}
2020-11-25T03:21:54.842Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:21:54.851Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:25:14Z"
    }
  ]
}
2020-11-25T03:22:55.306Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:22:55.316Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```



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```
{
  "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
  "grantId": "254535729",
  "response": {
    "responseCode": 0
  },
  "transmitExpireTime": "2020-11-25T03:26:15Z"
}
]
}
2020-11-25T03:23:56.180Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2020-11-25T03:23:56.197Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:27:16Z"
    }
  ]
}
}
2020-11-25T03:24:56.663Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
```



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```
}
2020-11-25T03:24:56.673Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:28:16Z"
    }
  ]
}
```

```
2020-11-25T03:25:57.183Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```

```
2020-11-25T03:25:57.190Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:29:17Z"
    }
  ]
}
```

```
2020-11-25T03:26:57.663Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
    }
  ]
}
```



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```

    "operationState": "AUTHORIZED"
  }
]
}
2020-11-25T03:26:57.671Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:30:17Z"
    }
  ]
}
2020-11-25T03:27:58.075Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2020-11-25T03:27:58.084Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "2AG32EG8050AM11Mock-SAS4874251502",
      "grantId": "254535729",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2020-11-25T03:31:18Z"
    }
  ]
}

```



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8.22 WINNF.FT.C.SCS.1

The screenshot shows a network traffic capture in Wireshark. The packet list pane displays several packets, with packet 11 selected. The packet details pane shows the structure of the selected packet, which is a TLSv1.2 Record Layer containing a Handshake Protocol: Server Hello. The raw packet bytes pane shows the hexadecimal and ASCII representation of the selected packet.

No.	Time	Source	Destination	Protocol	Length	Info
10	8.545878	192.168.24.2	192.168.24.103	TLSv1.2	311	Client Hello
11	8.546286	192.168.24.103	192.168.24.2	TLSv1.2	1372	Server Hello
13	8.546384	192.168.24.103	192.168.24.2	TLSv1.2	358	Certificate, Certificate Request, Server Hello Done
17	8.746146	192.168.24.2	192.168.24.103	TCP	1372	55079 → 5800 [ACK] Seq=258 Ack=2933 Win=34272 Len=1318 [TCP segment of a reassembled PDU]
20	8.751324	192.168.24.2	192.168.24.103	TLSv1.2	886	Certificate, Client Key Exchange, Certificate Verify, Change Cipher Spec, Finished
21	8.771471	192.168.24.103	192.168.24.2	TLSv1.2	185	Change Cipher Spec, Finished
23	8.826154	192.168.24.2	192.168.24.103	TLSv1.2	248	[TLS segment of a reassembled PDU]
24	8.826743	192.168.24.103	192.168.24.2	HTTP	108	HTTP/1.1 200 Continue
25	8.886133	192.168.24.2	192.168.24.103	TCP	1372	55079 → 5800 [ACK] Seq=3840 Ack=3038 Win=34272 Len=1318 [TCP segment of a reassembled PDU]
26	8.886141	192.168.24.2	192.168.24.103	HTTP	385	POST /v1.2/registration HTTP/1.1 (application/json)
28	9.828669	192.168.24.103	192.168.24.2	TLSv1.2	108	[TLS segment of a reassembled PDU]
30	9.896247	192.168.24.103	192.168.24.2	HTTP	544	HTTP/1.1 200 OK (application/json)

Packet 11 details:

- Frame 11: 1372 bytes on wire (10976 bits), 1372 bytes captured (10976 bits) on interface \Device\NPF_{D82259D4-5D01-4F38-8D0C-4A4579E998AA}, id 0
- Ethernet II, Src: RealtekS_36:01:4e (08:e0:4c:36:01:4e), Dst: BaiCellS_0c:ba:1d (48:bf:74:0c:ba:1d)
- Internet Protocol Version 4, Src: 192.168.24.103, Dst: 192.168.24.2
- Transmission Control Protocol, Src Port: 5800, Dst Port: 55079, Seq: 1, Ack: 258, Len: 1318
- Transport Layer Security
 - TLSv1.2 Record Layer: Handshake Protocol: Server Hello
 - Content Type: Handshake (22)
 - Version: TLS 1.2 (0x0303)
 - Length: 86
 - Handshake Protocol: Server Hello
 - Handshake Type: Server Hello (2)
 - Length: 82
 - Version: TLS 1.2 (0x0303)
 - Random: 96b0cee53f8f6d6c6cf4586d5b0d693e8e3dc970adaa2ed28..
 - Session ID Length: 32
 - Session ID: 0a0b2bba2926d9e27797498bba1533896b79609808d2513..
 - Cipher Suite: TLS_RSA_WITH_AES_256_GCM_SHA384 (0x009d)
 - Compression Method: null (0)
 - Extensions Length: 10
 - Extension: renegotiation_info (len=1)
 - Type: renegotiation_info (65281)
 - Length: 1
 - Renegotiation Info extension
 - Extension: heartbeat (len=1)
 - Type: heartbeat (15)
 - Length: 1
 - Mode: Peer allowed to send requests (1)

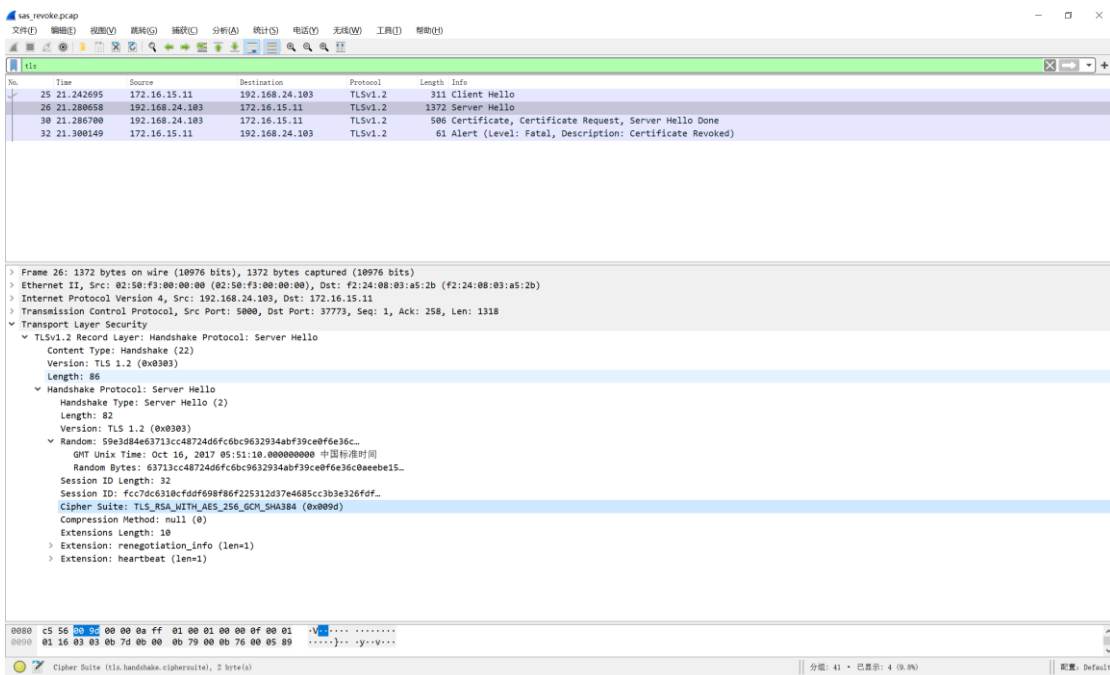
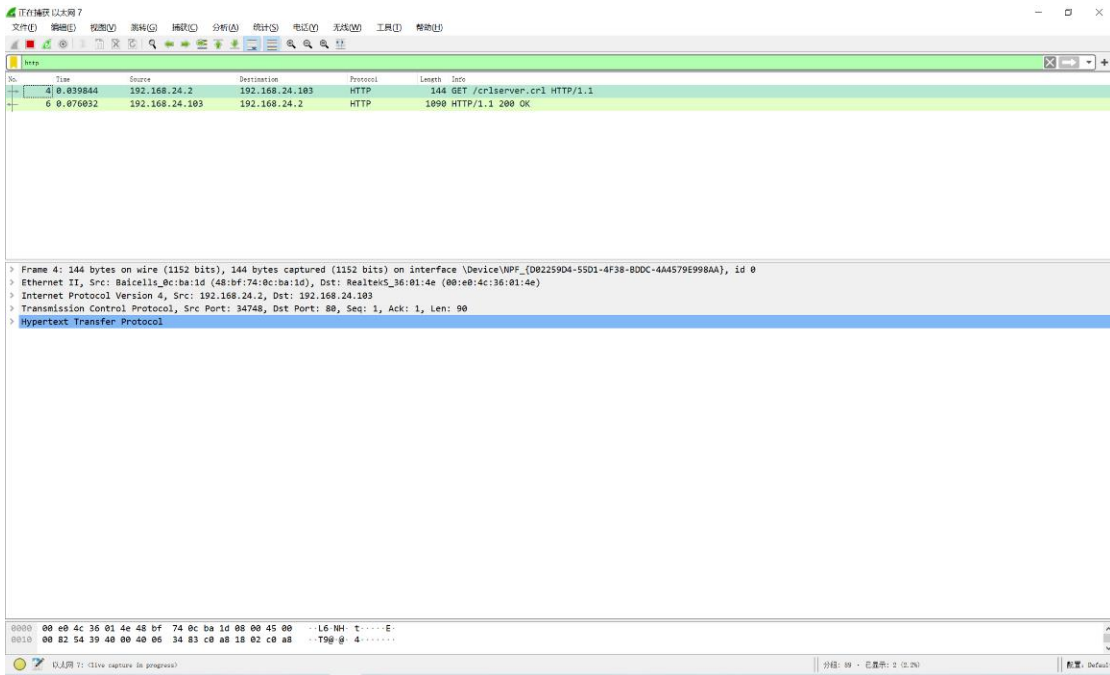


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8.23 WINNF.FT.C.SCS.2

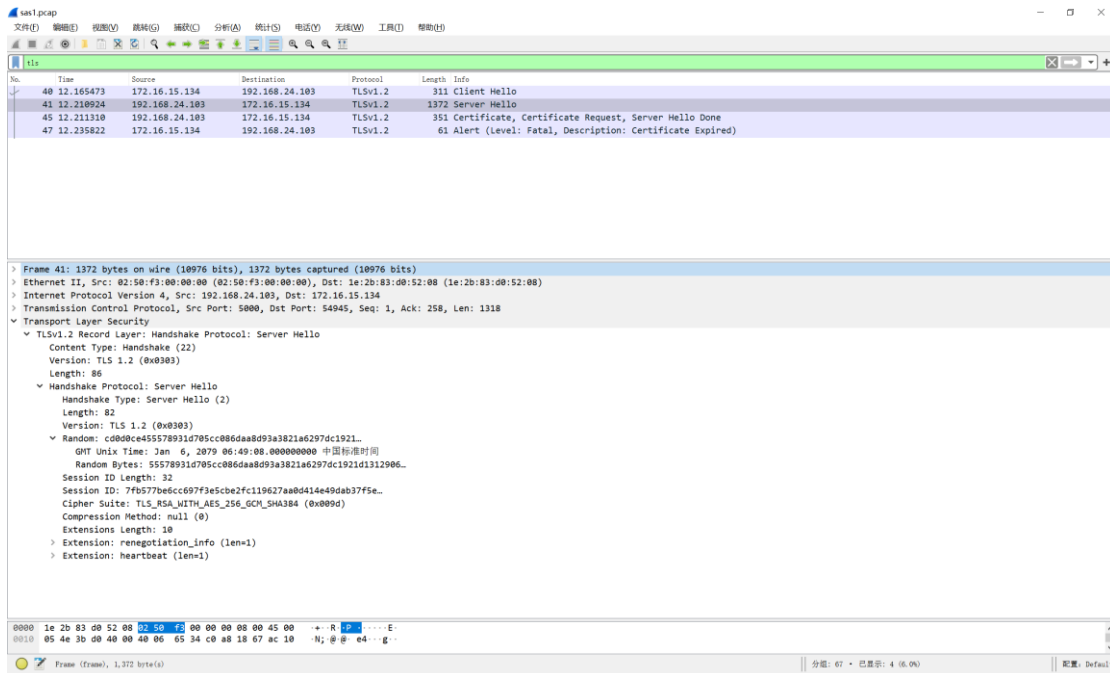


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8.24 WINNF.FT.C.SCS.3

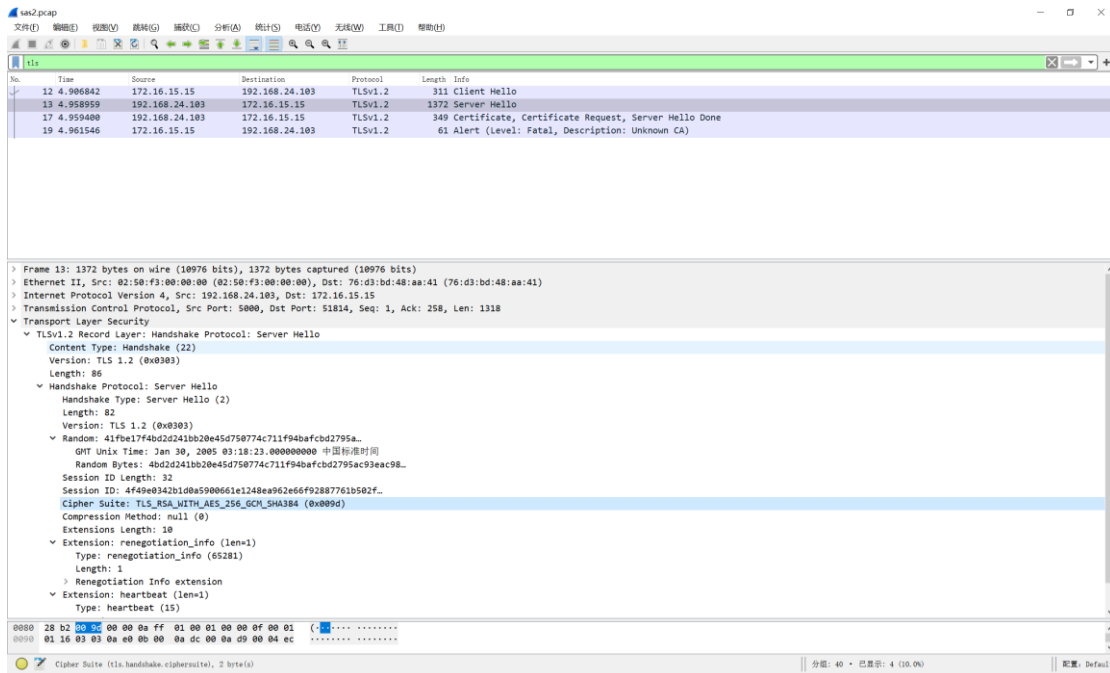


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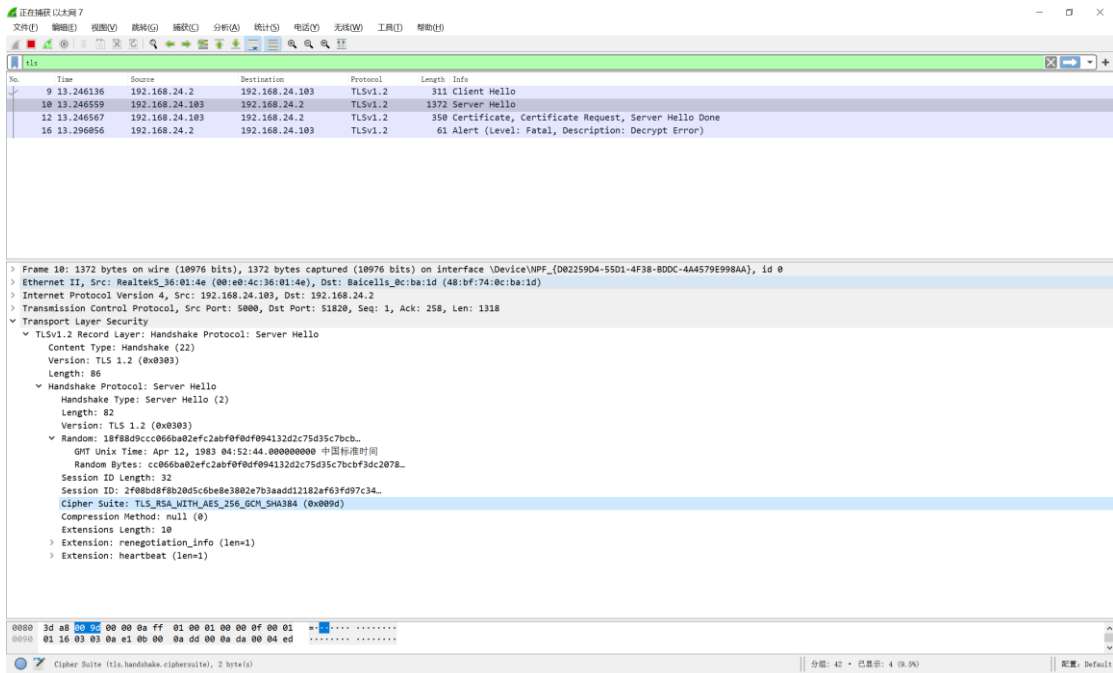
8.25 WINNF.FT.C.SCS.4



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8.26 WINNF.FT.C.SCS.5



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9 Photographs

9.1 EUT Constructional Details (EUT Photos)

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- End of the Report -

