

Test Logs

FCC ID: H8N46116A

Test Model: NR xCell 46116A

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Applicant: ASKEY COMPUER CORP.

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**FCC Registration/
Designation Number:** 788550 / TW0003

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1 CBSD Registration Process

1.1 WINNF.FT.C.REG.3

2023-08-14T05:32:02.424Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T05:32:02.424Z - INFO - the selected test from the user : WINNF.FT.C.REG.3 is starting now

2023-08-14T05:32:30.454Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T05:32:30.470Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]

```

2023-08-14T05:32:31.877Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T05:32:31.877Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T05:36:57.463Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T05:36:57.713Z - INFO - The final result of the test : WINNF.FT.C.REG.3 is - passed

1.2 WINNF.FT.C.REG.7

2023-08-14T05:50:19.286Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T05:50:19.286Z - INFO - the selected test from the user : WINNF.FT.C.REG.7 is starting now

2023-08-14T05:50:43.737Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-14T05:50:43.769Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-14T05:50:48.721Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

```
}
2023-08-14T05:50:48.721Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T05:50:53.503Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-14T05:50:53.517Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-21T05:50:53Z",
      "grantId": "757152800",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T05:50:58.943Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```

```
}
2023-08-14T05:50:58.943Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T05:54:18Z"
    }
  ]
}
2023-08-14T05:52:02.118Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-14T05:52:02.118Z - INFO - Time interval between two heartbeat request messages is: 63.175, limit
is: 65.0
2023-08-14T05:52:02.118Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T05:55:22Z"
    }
  ]
}
2023-08-14T05:52:19.618Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800"
    }
  ]
}
2023-08-14T05:52:19.618Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "757152800",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T05:52:23.555Z - INFO - deregistration request from CBRS : {
  "deregistrationRequest": [
```

```
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666"
    }
  ]
}
2023-08-14T05:52:23.555Z - INFO - engine sent successfully, the response to CBRS : {
  "deregistrationResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T05:52:24.648Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-14T05:52:24.648Z - 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 :
2023-08-14T05:55:56.724Z - 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
2023-08-14T05:55:57.273Z - INFO - The final result of the test : WINNF.FT.C.REG.7 is - passed
```

1.3 WINNF.FT.C.REG.8

2023-08-14T06:02:28.592Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T06:02:28.592Z - INFO - the selected test from the user : WINNF.FT.C.REG.8 is starting now

2023-08-14T06:03:03.234Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T06:03:03.266Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "response": {
      "responseCode": 102
    }
  }
]

```

2023-08-14T06:03:05.016Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T06:03:05.016Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T06:06:21.688Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T06:06:21.970Z - INFO - The final result of the test : WINNF.FT.C.REG.8 is - passed

1.4 WINNF.FT.C.REG.10

2023-08-14T06:10:47.138Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T06:10:47.138Z - INFO - the selected test from the user : WINNF.FT.C.REG.10 is starting now

2023-08-14T06:22:11.588Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T06:22:11.604Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "response": {
      "responseCode": 200
    }
  }
]

```

2023-08-14T06:22:13.385Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T06:22:13.385Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T06:25:21.306Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T06:25:21.469Z - INFO - The final result of the test : WINNF.FT.C.REG.10 is - passed

1.5 WINNF.FT.C.REG.12

2023-08-14T06:32:00.990Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T06:32:00.990Z - INFO - the selected test from the user : WINNF.FT.C.REG.12 is starting now

2023-08-14T06:34:50.164Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-14T06:34:50.180Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "response": {
      "responseCode": 103
    }
  }
]
```

2023-08-14T06:34:52.051Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T06:34:52.051Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T06:38:00.941Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T06:38:01.239Z - INFO - The final result of the test : WINNF.FT.C.REG.12 is - passed

1.6 WINNF.FT.C.REG.14

2023-08-14T06:47:51.401Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T06:47:51.417Z - INFO - the selected test from the user : WINNF.FT.C.REG.14 is starting now

2023-08-14T06:48:35.342Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T06:48:35.374Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "response": {
      "responseCode": 101
    }
  }
]

```

2023-08-14T06:48:37.062Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T06:48:37.062Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T06:51:35.265Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T06:51:35.500Z - INFO - The final result of the test : WINNF.FT.C.REG.14 is - passed

1.7 WINNF.FT.C.REG.16

2023-08-14T07:08:57.226Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T07:08:57.226Z - INFO - the selected test from the user : WINNF.FT.C.REG.16 is starting now

2023-08-14T07:09:45.484Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T07:09:45.516Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "response": {
      "responseCode": 100
    }
  }
]

```

2023-08-14T07:09:46.562Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T07:09:46.562Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T07:12:37.000Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T07:12:37.217Z - INFO - The final result of the test : WINNF.FT.C.REG.16 is – passed

1.8 WINNF.FT.C.REG.18

2023-08-14T08:08:12.944Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T08:08:12.944Z - INFO - the selected test from the user : WINNF.FT.C.REG.18 is starting now

2023-08-14T08:08:39.943Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-14T08:08:39.973Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "response": {
      "responseCode": 201
    }
  }
]

```

2023-08-14T08:08:41.381Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T08:08:41.381Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-14T08:11:21.746Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-14T08:11:21.917Z - INFO - The final result of the test : WINNF.FT.C.REG.18 is - passed

1.9 WINNF.FT.C.REG.20

2023-08-14T08:14:39.132Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-14T08:14:39.132Z - INFO - the selected test from the user : WINNF.FT.C.REG.20_1 is starting now

2023-08-14T08:15:10.414Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.4,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-14T08:15:10.446Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-14T08:15:14.823Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

```
}
2023-08-14T08:15:14.823Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:15:21.176Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-14T08:15:21.176Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-21T08:15:21Z",
      "grantId": "602217341",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:15:25.645Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```

```
}
2023-08-14T08:15:25.645Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T08:18:45Z"
    }
  ]
}
2023-08-14T08:16:28.177Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-14T08:16:28.177Z - INFO - Time interval between two heartbeat request messages is: 62.531, limit is: 65.0
2023-08-14T08:16:28.177Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T08:19:48Z"
    }
  ]
}
2023-08-14T08:17:01.634Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341"
    }
  ]
}
2023-08-14T08:17:01.634Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "602217341",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:17:05.418Z - INFO - deregistration request from CBRS : {
  "deregistrationRequest": [
```



```

    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666"
    }
  ]
}
2023-08-14T08:17:05.434Z - INFO - engine sent successfully, the response to CBRS : {
  "deregistrationResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:17:06.760Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-14T08:17:06.760Z - 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 :
2023-08-14T08:18:27.658Z - 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
2023-08-14T08:18:30.049Z - INFO - The final result of the test : WINNF.FT.C.REG.20_1 is - passed

2023-08-14T08:18:40.907Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
2023-08-14T08:18:40.907Z - INFO - the selected test from the user : WINNF.FT.C.REG.20_2 is starting now
2023-08-14T08:36:33.454Z - INFO - registration request from CBRS : {
  "registrationRequest": [
    {
      "airInterface": {
        "radioTechnology": "NR"
      },
      "cbsdCategory": "A",
      "cbsdInfo": {
        "firmwareVersion": "0.47.0.98",
        "hardwareVersion": "REV4",
        "model": "NR xCell 46116A",
        "softwareVersion": "v2.2.011.2703",
        "vendor": "Askey Corporation"
      },
      "cbsdSerialNumber": "G1E3A016666",
      "fccId": "H8N46116A",
      "installationParam": {
        "antennaGain": 6,
        "eirpCapability": 30,
        "height": 1.0,
        "heightType": "AGL",
        "indoorDeployment": true,
        "latitude": 62.5,
        "longitude": -155.5
      },
      "measCapability": [],
      "userId": "AskeyUserId-46116A"
    }
  ]
}
2023-08-14T08:36:33.516Z - INFO - engine sent successfully, the response to CBRS : {
  "registrationResponse": [

```

```

    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:36:38.938Z - INFO - spectrumInquiry request from CBRS : {
  "spectrumInquiryRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "inquiredSpectrum": [
        {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      ]
    }
  ]
}
2023-08-14T08:36:38.938Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-14T08:36:45.048Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-14T08:36:45.048Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {

```

```

    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "channelType": "GAA",
    "grantExpireTime": "2023-08-21T08:36:45Z",
    "grantId": "573535078",
    "heartbeatInterval": 60,
    "response": {
      "responseCode": 0
    }
  }
]
}
2023-08-14T08:36:50.266Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "573535078",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-14T08:36:50.266Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "573535078",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T08:40:10Z"
    }
  ]
}
2023-08-14T08:37:53.191Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "573535078",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-14T08:37:53.191Z - INFO - Time interval between two heartbeat request messages is: 62.925, limit
is: 65.0
2023-08-14T08:37:53.207Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "573535078",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-14T08:41:13Z"
    }
  ]
}
2023-08-14T08:38:56.299Z - INFO - heartbeat request from CBRS : {

```

```
"heartbeatRequest": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "573535078",  
    "grantRenew": false,  
    "operationState": "AUTHORIZED"  
  }  
]  
}  
2023-08-14T08:38:56.299Z - INFO - Time interval between two heartbeat request messages is: 63.107, limit  
is: 65.0  
2023-08-14T08:38:56.313Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "573535078",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-14T08:42:16Z"  
    }  
  ]  
}  
2023-08-14T08:39:58.835Z - INFO - heartbeat request from CBRS : {  
  "heartbeatRequest": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "573535078",  
      "grantRenew": false,  
      "operationState": "AUTHORIZED"  
    }  
  ]  
}  
2023-08-14T08:39:58.835Z - INFO - Time interval between two heartbeat request messages is: 62.536, limit  
is: 65.0  
2023-08-14T08:39:58.835Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "573535078",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-14T08:43:18Z"  
    }  
  ]  
}  
2023-08-14T08:41:02.204Z - INFO - heartbeat request from CBRS : {  
  "heartbeatRequest": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "573535078",  
      "grantRenew": false,  
      "operationState": "AUTHORIZED"  
    }  
  ]  
}  
2023-08-14T08:41:02.204Z - INFO - Time interval between two heartbeat request messages is: 63.37, limit is:
```

65.0

2023-08-14T08:41:02.204Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "573535078",  
    "response": {  
      "responseCode": 0  
    },  
    "transmitExpireTime": "2023-08-14T08:44:22Z"  
  }  
]
```

2023-08-14T08:42:04.572Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "573535078",  
    "grantRenew": false,  
    "operationState": "AUTHORIZED"  
  }  
]
```

2023-08-14T08:42:04.572Z - INFO - Time interval between two heartbeat request messages is: 62.368, limit is: 65.0

2023-08-14T08:42:04.588Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "573535078",  
    "response": {  
      "responseCode": 0  
    },  
    "transmitExpireTime": "2023-08-14T08:45:24Z"  
  }  
]
```

2023-08-14T08:42:06.384Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-14T08:42:06.384Z - INFO - the question is : Did CBSD1 transmit power prior to AUTHORIZED state (first successful HBT response)? please choose one of the answers :

2023-08-14T08:42:45.400Z - INFO - for the question : Did CBSD1 transmit power prior to AUTHORIZED state (first successful HBT response)? , the user choose n

2023-08-14T08:42:45.400Z - INFO - the question is : Did CBSD1 transmit only within the frequency range specified in its grantRequest message? please choose one of the answers :

2023-08-14T08:42:46.430Z - INFO - for the question : Did CBSD1 transmit only within the frequency range specified in its grantRequest message? , the user choose y

2023-08-14T08:42:46.805Z - INFO - The final result of the test : WINNF.FT.C.REG.20_2 is - passed

2 CBSD Spectrum Grant Process

2.1 WINNF.FT.C.GRA.1

2023-08-16T03:29:33.698Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-16T03:29:33.698Z - INFO - the selected test from the user : WINNF.FT.C.GRA.1 is starting now

2023-08-16T03:30:38.729Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-16T03:30:38.790Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-16T03:30:42.759Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

```
}
2023-08-16T03:30:42.775Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
```

```
}
2023-08-16T03:30:48.713Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
```

```
}
2023-08-16T03:30:48.727Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 400
      }
    }
  ]
}
```

```
}
2023-08-16T03:30:50.634Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-16T03:30:50.634Z - INFO - the question is : Were there RF transmissions from the CBSD1 during
the test? please choose one of the answers :
2023-08-16T03:35:50.786Z - INFO - for the question : Were there RF transmissions from the CBSD1 during
the test? , the user choose n
2023-08-16T03:35:51.131Z - INFO - The final result of the test : WINNF.FT.C.GRA.1 is - passed
```

2.2 WINNF.FT.C.GRA.2

2023-08-16T03:38:34.227Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-16T03:38:34.227Z - INFO - the selected test from the user : WINNF.FT.C.GRA.2 is starting now

2023-08-16T03:39:02.526Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-16T03:39:02.558Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-16T03:39:06.355Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-16T03:39:06.371Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```



```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T03:39:11.933Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-16T03:39:11.933Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 401
      }
    }
  ]
}
2023-08-16T03:39:13.605Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-16T03:39:13.605Z - INFO - the question is : Were there RF transmissions from the CBSD1 during
the test? please choose one of the answers :
2023-08-16T03:41:57.191Z - INFO - for the question : Were there RF transmissions from the CBSD1 during
the test? , the user choose n
2023-08-16T03:41:57.457Z - INFO - The final result of the test : WINNF.FT.C.GRA.2 is - passed

```

3 CBSD Heart Beat Process

3.1 WINNF.FT.C.HBT.1

2023-08-22T08:00:01.526Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-22T08:00:01.526Z - INFO - the selected test from the user : WINNF.FT.C.HBT.1 is starting now

2023-08-22T08:00:28.996Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-22T08:00:29.075Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]

```

2023-08-22T08:00:33.184Z - INFO - spectrumInquiry request from CBRS : {

```

"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3590000000.0,
        "lowFrequency": 3550000000.0
      }
    ]
  }
]

```

```
}
2023-08-22T08:00:33.184Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3590000000.0,
            "lowFrequency": 3550000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T08:00:37.730Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3590000000.0,
          "lowFrequency": 3550000000.0
        }
      }
    }
  ]
}
2023-08-22T08:00:37.746Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-29T08:00:37Z",
      "grantId": "624994013",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T08:00:43.825Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```

```
}
2023-08-22T08:00:43.839Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:04:03Z"
    }
  ]
}
2023-08-22T08:01:46.979Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T08:01:46.994Z - INFO - Time interval between two heartbeat request messages is: 63.154, limit
is: 65.0
2023-08-22T08:01:46.994Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:05:06Z"
    }
  ]
}
2023-08-22T08:02:49.338Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T08:02:49.338Z - INFO - Time interval between two heartbeat request messages is: 62.359, limit
is: 65.0
2023-08-22T08:02:49.338Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:06:09Z"
    }
  ]
}
```

```
    }
  ]
}
2023-08-22T08:03:51.898Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T08:03:51.898Z - INFO - Time interval between two heartbeat request messages is: 62.561, limit
is: 65.0
2023-08-22T08:03:51.898Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:07:11Z"
    }
  ]
}
}
2023-08-22T08:04:55.102Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2023-08-22T08:04:55.102Z - INFO - Time interval between two heartbeat request messages is: 63.204, limit
is: 65.0
2023-08-22T08:04:55.102Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:08:15Z"
    }
  ]
}
}
}
2023-08-22T08:05:59.555Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```

```
    }
  ]
}
2023-08-22T08:05:59.555Z - INFO - Time interval between two heartbeat request messages is: 64.452, limit
is: 65.0
2023-08-22T08:05:59.571Z - INFO - engine sent successfully, the response to CBRS  : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "624994013",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T08:09:19Z"
    }
  ]
}
}
2023-08-22T08:06:00.726Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-22T08:06:00.726Z - INFO - the question is : Did CBSD1 transmit power prior to AUTHORIZED state
(first successful HBT response)? please choose one of the answers :
2023-08-22T08:07:38.760Z - INFO - for the question : Did CBSD1 transmit power prior to AUTHORIZED state
(first successful HBT response)? , the user choose n
2023-08-22T08:07:38.760Z - INFO - the question is : Did CBSD1 transmit only within the frequency range
specified in its grantRequest message? please choose one of the answers :
2023-08-22T08:07:40.354Z - INFO - for the question : Did CBSD1 transmit only within the frequency range
specified in its grantRequest message? , the user choose y
2023-08-22T08:07:40.729Z - INFO - The final result of the test : WINNF.FT.C.HBT.1 is - passed
```

3.2 WINNF.FT.C.HBT.3

2023-08-15T01:41:05.914Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T01:41:05.914Z - INFO - the selected test from the user : WINNF.FT.C.HBT.3 is starting now

2023-08-15T01:41:31.398Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-15T01:41:31.492Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]

```

2023-08-15T01:41:35.867Z - INFO - spectrumInquiry request from CBRS : {

```

"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]

```

2023-08-15T01:41:35.867Z - INFO - engine sent successfully, the response to CBRS : {

```

"spectrumInquiryResponse": [

```

```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T01:41:40.803Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T01:41:40.819Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T01:41:40Z",
      "grantId": "568351103",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T01:41:45.788Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T01:41:45.803Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```



```

    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T01:45:05Z"
    }
  ]
}
2023-08-15T01:42:49.177Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T01:42:49.177Z - INFO - Time interval between two heartbeat request messages is: 63.389, limit
is: 65.0
2023-08-15T01:42:49.177Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T01:46:09Z"
    }
  ]
}
2023-08-15T01:43:51.502Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T01:43:51.502Z - INFO - Time interval between two heartbeat request messages is: 62.325, limit
is: 65.0
2023-08-15T01:43:51.517Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T01:47:11Z"
    }
  ]
}
}

```

```
2023-08-15T01:44:55.147Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T01:44:55.147Z - INFO - Time interval between two heartbeat request messages is: 63.645, limit
is: 65.0
2023-08-15T01:44:55.147Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "568351103",
      "response": {
        "responseCode": 105
      },
      "transmitExpireTime": "2023-08-15T01:44:55Z"
    }
  ]
}
2023-08-15T01:44:56.506Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-15T01:44:56.506Z - 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 :
2023-08-15T01:48:35.823Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 105? , the user choose y
2023-08-15T01:48:36.260Z - INFO - The final result of the test : WINNF.FT.C.HBT.3 is - passed
```

3.3 WINNF.FT.C.HBT.4

2023-08-15T02:11:55.648Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T02:11:55.648Z - INFO - the selected test from the user : WINNF.FT.C.HBT.4 is starting now

2023-08-15T02:12:21.125Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T02:12:21.157Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T02:12:25.562Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-15T02:12:25.578Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```

```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:12:31.094Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T02:12:31.094Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T02:12:31Z",
      "grantId": "976098443",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:12:35.687Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T02:12:35.687Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```

```
{
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "grantId": "976098443",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2023-08-15T02:15:55Z"
  }
}
]
}
2023-08-15T02:13:39.237Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
]
}
2023-08-15T02:13:39.237Z - INFO - Time interval between two heartbeat request messages is: 63.551, limit
is: 65.0
2023-08-15T02:13:39.253Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:16:59Z"
    }
  ]
}
]
}
2023-08-15T02:14:41.963Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
]
}
2023-08-15T02:14:41.963Z - INFO - Time interval between two heartbeat request messages is: 62.725, limit
is: 65.0
2023-08-15T02:14:41.963Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:18:01Z"
    }
  ]
}
]
}
```

```
2023-08-15T02:15:46.694Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T02:15:46.694Z - INFO - Time interval between two heartbeat request messages is: 64.731, limit
is: 65.0
2023-08-15T02:15:46.694Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:19:06Z"
    }
  ]
}
2023-08-15T02:16:50.236Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T02:16:50.236Z - INFO - Time interval between two heartbeat request messages is: 63.543, limit
is: 65.0
2023-08-15T02:16:50.236Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:20:10Z"
    }
  ]
}
2023-08-15T02:17:53.217Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "976098443",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
```

2023-08-15T02:17:53.217Z - INFO - Time interval between two heartbeat request messages is: 62.981, limit is: 65.0

2023-08-15T02:17:53.233Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "976098443",  
    "response": {  
      "responseCode": 500  
    },  
    "transmitExpireTime": "2023-08-15T02:17:53Z"  
  }  
]
```

}

2023-08-15T02:17:54.737Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-15T02:17:54.737Z - 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 :

2023-08-15T02:18:01.358Z - INFO - for the question : Did the CBSD1 stop RF transmission within 60 seconds of receiving Heartbeat response with responseCode = 500? , the user choose y

2023-08-15T02:18:01.671Z - INFO - The final result of the test : WINNF.FT.C.HBT.4 is - passed

3.4 WINNF.FT.C.HBT.5

2023-08-15T02:26:20.982Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T02:26:20.982Z - INFO - the selected test from the user : WINNF.FT.C.HBT.5 is starting now

2023-08-15T02:26:48.168Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T02:26:48.200Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T02:26:52.694Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-15T02:26:52.709Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```



```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:26:59.642Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T02:26:59.642Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T02:26:59Z",
      "grantId": "513967831",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:27:03.844Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "513967831",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T02:27:03.858Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```

```

    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "513967831",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2023-08-15T02:27:03Z"
    }
  ]
}
2023-08-15T02:28:06.661Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "513967831",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T02:28:06.677Z - INFO - Time interval between two heartbeat request messages is: 62.818, limit
is: 65.0
2023-08-15T02:28:06.677Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "513967831",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2023-08-15T02:28:06Z"
    }
  ]
}
2023-08-15T02:28:08.068Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-15T02:28:08.068Z - INFO - the question is : Did the CBSD transmit at any time during the test?
please choose one of the answers :
2023-08-15T02:29:05.953Z - INFO - for the question : Did the CBSD transmit at any time during the test? , the
user choose n
2023-08-15T02:29:06.407Z - INFO - The final result of the test : WINNF.FT.C.HBT.5 is - passed

```

3.5 WINNF.FT.C.HBT.6

2023-08-15T02:36:02.971Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T02:36:02.971Z - INFO - the selected test from the user : WINNF.FT.C.HBT.6 is starting now

2023-08-15T02:36:29.190Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T02:36:29.221Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T02:36:33.878Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-15T02:36:33.892Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```

```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:36:39.845Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T02:36:39.845Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T02:36:39Z",
      "grantId": "841032851",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T02:36:46.204Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T02:36:46.204Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```

```

    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:40:06Z"
    }
  ]
}
2023-08-15T02:37:49.368Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T02:37:49.368Z - INFO - Time interval between two heartbeat request messages is: 63.163, limit
is: 65.0
2023-08-15T02:37:49.368Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:41:09Z"
    }
  ]
}
2023-08-15T02:38:51.095Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T02:38:51.095Z - INFO - Time interval between two heartbeat request messages is: 61.727, limit
is: 65.0
2023-08-15T02:38:51.095Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T02:42:11Z"
    }
  ]
}
}

```

```

2023-08-15T02:39:54.365Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T02:39:54.365Z - INFO - Time interval between two heartbeat request messages is: 63.27, limit is:
65.0
2023-08-15T02:39:54.365Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2023-08-15T02:39:54Z"
    }
  ]
}
2023-08-15T02:40:57.871Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T02:40:57.871Z - INFO - Time interval between two heartbeat request messages is: 63.507, limit
is: 65.0
2023-08-15T02:40:57.888Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "841032851",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2023-08-15T02:40:57Z"
    }
  ]
}
2023-08-15T02:40:59.417Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-15T02:40:59.417Z - 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 :
2023-08-15T02:43:11.161Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 501? , the user choose y
2023-08-15T02:43:11.473Z - INFO - The final result of the test : WINNF.FT.C.HBT.6 is - passed

```

3.6 WINNF.FT.C.HBT.7

2023-08-15T03:01:01.180Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T03:01:01.180Z - INFO - the selected test from the user : WINNF.FT.C.HBT.7 is starting now

2023-08-15T03:01:30.579Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T03:01:30.627Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T03:01:35.078Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-15T03:01:35.078Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```

```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T03:01:40.187Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T03:01:40.187Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T03:01:40Z",
      "grantId": "945983543",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T03:01:44.637Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T03:01:44.653Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```



```
{
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "grantId": "945983543",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2023-08-15T03:05:04Z"
  }
]
}
2023-08-15T03:02:47.062Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T03:02:47.062Z - INFO - Time interval between two heartbeat request messages is: 62.426, limit
is: 65.0
2023-08-15T03:02:47.078Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T03:06:07Z"
    }
  ]
}
}
2023-08-15T03:03:49.631Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2023-08-15T03:03:49.631Z - INFO - Time interval between two heartbeat request messages is: 62.568, limit
is: 65.0
2023-08-15T03:03:49.631Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T03:07:09Z"
    }
  ]
}
}
```

```

2023-08-15T03:04:52.503Z - INFO - heartbeat request from CBRS  : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T03:04:52.503Z - INFO - Time interval between two heartbeat request messages is: 62.873, limit
is: 65.0
2023-08-15T03:04:52.519Z - INFO - engine sent successfully, the response to CBRS  : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "response": {
        "responseCode": 502
      },
      "transmitExpireTime": "2023-08-15T03:04:52Z"
    }
  ]
}
2023-08-15T03:04:55.946Z - INFO - relinquishment request from CBRS  : {
  "relinquishmentRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543"
    }
  ]
}
2023-08-15T03:04:55.961Z - INFO - engine sent successfully, the response to CBRS  : {
  "relinquishmentResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "945983543",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T03:04:57.783Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-15T03:04:57.783Z - 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 :
2023-08-15T03:06:39.400Z - INFO - for the question : Did the CBSD stop RF transmission within 60 seconds
of receiving Heartbeat response with responseCode = 502? , the user choose y
2023-08-15T03:06:39.618Z - INFO - The final result of the test : WINNF.FT.C.HBT.7 is - passed

```

3.7 WINNF.FT.C.HBT.9

2023-08-15T05:25:42.536Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T05:25:42.536Z - INFO - the selected test from the user : WINNF.FT.C.HBT.9 is starting now

2023-08-15T05:26:10.309Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T05:26:10.341Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T05:26:14.543Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

```
}
2023-08-15T05:26:14.543Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T05:26:19.153Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T05:26:19.168Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T05:26:19Z",
      "grantId": "198941409",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T05:26:24.450Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "198941409",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```

```

}
2023-08-15T05:27:38.444Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "198941409",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T05:27:38.444Z - INFO - request message received while HBT is absent, sleep 131 sec before
responding
2023-08-15T05:28:51.793Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "198941409",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T05:28:51.793Z - INFO - request message received while HBT is absent, sleep 57 sec before
responding
2023-08-15T05:29:44.463Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "198941409",
      "response": {
        "responseCode": 501
      },
      "transmitExpireTime": "2023-08-15T05:29:44Z"
    }
  ]
}
2023-08-15T05:29:46.151Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-15T05:29:46.151Z - INFO - the question is : Were there RF transmissions from the CBSD during the
test? please choose one of the answers :
2023-08-15T05:29:48.809Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2023-08-15T05:29:49.466Z - INFO - engine sent successfully, the response to CBRS : "list index out of
range"
2023-08-15T05:30:22.559Z - INFO - for the question : Were there RF transmissions from the CBSD during
the test? , the user choose n
2023-08-15T05:30:22.956Z - INFO - The final result of the test : WINNF.FT.C.HBT.9 is - passed

```

3.8 WINNF.FT.C.HBT.10

2023-08-15T05:33:27.657Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-15T05:33:27.657Z - INFO - the selected test from the user : WINNF.FT.C.HBT.10 is starting now

2023-08-15T05:33:54.062Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-15T05:33:54.092Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-15T05:33:59.351Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

2023-08-15T05:33:59.351Z - INFO - engine sent successfully, the response to CBRS : {

```
"spectrumInquiryResponse": [
```

```

    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T05:34:04.342Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-15T05:34:04.342Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-22T05:34:04Z",
      "grantId": "541134008",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-15T05:34:09.384Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "541134008",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
2023-08-15T05:34:09.384Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [

```

```
{
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "grantId": "541134008",
    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2023-08-15T05:37:29Z"
  }
]
}
2023-08-15T05:35:12.325Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "541134008",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-15T05:35:12.325Z - INFO - Time interval between two heartbeat request messages is: 62.941, limit
is: 65.0
2023-08-15T05:35:12.325Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "541134008",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-15T05:38:32Z"
    }
  ]
}
}
2023-08-15T05:36:14.948Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "541134008",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
}
2023-08-15T05:36:14.948Z - INFO - Time interval between two heartbeat request messages is: 62.624, limit
is: 65.0
2023-08-15T05:36:14.948Z - INFO - LAST HBT RESPONSE THAT SET TRANSMIT_EXPIRE_TIME WAS AT:
2023-08-15 05:35:12.325000
2023-08-15T05:37:30.720Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "541134008",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
}
```


2023-08-15T05:37:30.720Z - INFO - request message received while HBT is absent, sleep 129 sec before responding

2023-08-15T05:38:45.230Z - INFO - heartbeat request from CBRS : {

```
"heartbeatRequest": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "541134008",  
    "grantRenew": false,  
    "operationState": "GRANTED"  
  }  
]
```

2023-08-15T05:38:45.230Z - INFO - request message received while HBT is absent, sleep 54 sec before responding

2023-08-15T05:39:34.954Z - INFO - engine sent successfully, the response to CBRS : {

```
"heartbeatResponse": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "541134008",  
    "response": {  
      "responseCode": 501  
    },  
    "transmitExpireTime": "2023-08-15T05:39:34Z"  
  }  
]
```

2023-08-15T05:39:36.877Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-15T05:39:36.877Z - INFO - the question is : Did the CBSD stop RF transmissions within (transmitExpireTime + 60seconds) of last valid heartbeat response? please choose one of the answers :

2023-08-15T05:39:39.236Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2023-08-15T05:39:39.736Z - INFO - engine sent successfully, the response to CBRS : "list index out of range"

2023-08-15T05:40:16.658Z - INFO - for the question : Did the CBSD stop RF transmissions within (transmitExpireTime + 60seconds) of last valid heartbeat response? , the user choose y

2023-08-15T05:40:16.908Z - INFO - The final result of the test : WINNF.FT.C.HBT.10 is - passed

4 CBSD Relinquishment Process

4.1 WINNF.FT.C.RLQ.1

2023-08-16T05:11:24.135Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-16T05:11:24.135Z - INFO - the selected test from the user : WINNF.FT.C.RLQ.1 is starting now

2023-08-16T05:12:00.180Z - INFO - registration request from CBRS : {

```

"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]

```

2023-08-16T05:12:00.243Z - INFO - engine sent successfully, the response to CBRS : {

```

"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]

```

2023-08-16T05:12:04.983Z - INFO - spectrumInquiry request from CBRS : {

```

"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]

```

```
}
2023-08-16T05:12:04.983Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:12:10.657Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-16T05:12:10.657Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-23T05:12:10Z",
      "grantId": "200587658",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:12:14.868Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}
```

```
}
2023-08-16T05:12:14.884Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-16T05:15:34Z"
    }
  ]
}
2023-08-16T05:13:17.749Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-16T05:13:17.749Z - INFO - Time interval between two heartbeat request messages is: 62.88, limit is:
65.0
2023-08-16T05:13:17.765Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-16T05:16:37Z"
    }
  ]
}
2023-08-16T05:13:55.812Z - INFO - relinquishment request from CBRS : {
  "relinquishmentRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658"
    }
  ]
}
2023-08-16T05:13:55.828Z - INFO - engine sent successfully, the response to CBRS : {
  "relinquishmentResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "200587658",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:13:56.970Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-16T05:13:56.970Z - INFO - the question is : Did CBSD1 cease RF transmission before receipt of
```

Relinquishment Request by Test Harness? please choose one of the answers :

2023-08-16T05:16:20.727Z - INFO - for the question : Did CBSD1 cease RF transmission before receipt of Relinquishment Request by Test Harness? , the user choose y

2023-08-16T05:16:21.009Z - INFO - The final result of the test : WINNF.FT.C.RLQ.1 is - passed

5 CBSD Deregistration Process

5.1 WINNF.FT.C.DRG.1

2023-08-16T05:25:46.976Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-16T05:25:46.976Z - INFO - the selected test from the user : WINNF.FT.C.DRG.1 is starting now

2023-08-16T05:26:14.796Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-16T05:26:14.842Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-16T05:26:19.467Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3650000000.0,
        "lowFrequency": 3610000000.0
      }
    ]
  }
]
```

```

}
2023-08-16T05:26:19.467Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3650000000.0,
            "lowFrequency": 3610000000.0
          },
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:26:24.372Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20.0,
        "operationFrequencyRange": {
          "highFrequency": 3650000000.0,
          "lowFrequency": 3610000000.0
        }
      }
    }
  ]
}
2023-08-16T05:26:24.388Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-23T05:26:24Z",
      "grantId": "440224154",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:26:29.654Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "440224154",
      "grantRenew": false,
      "operationState": "GRANTED"
    }
  ]
}

```

```
}
2023-08-16T05:26:29.670Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "440224154",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-16T05:29:49Z"
    }
  ]
}
2023-08-16T05:27:32.174Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "440224154",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-16T05:27:32.174Z - INFO - Time interval between two heartbeat request messages is: 62.519, limit is: 65.0
2023-08-16T05:27:32.174Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "440224154",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-16T05:30:52Z"
    }
  ]
}
2023-08-16T05:28:12.190Z - INFO - deregistration request from CBRS : {
  "deregistrationRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666"
    }
  ]
}
2023-08-16T05:28:12.206Z - INFO - engine sent successfully, the response to CBRS : {
  "deregistrationResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-16T05:28:13.595Z - INFO - arrived to nstep starting question answer session with the technician
2023-08-16T05:28:13.595Z - 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 :
```


2023-08-16T05:30:44.990Z - 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
2023-08-16T05:30:45.210Z - INFO - The final result of the test : WINNF.FT.C.DRG.1 is - passed

6 CBSD Security Validation

6.1 WINNF.FT.C.SCS.1

2023-08-18T03:23:39.092Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-18T03:23:39.092Z - INFO - the selected test from the user : WINNF.FT.C.SCS.1 is starting now

2023-08-18T03:24:16.061Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 30,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-18T03:24:16.138Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-18T03:24:17.483Z - INFO - arrived to nstep starting question answer session with the technician

2023-08-18T03:24:17.483Z - INFO - the question is : Were there RF transmissions from the CBSD1 during the test? please choose one of the answers :

2023-08-18T03:25:32.309Z - INFO - for the question : Were there RF transmissions from the CBSD1 during the test? , the user choose n

2023-08-18T03:25:32.684Z - INFO - The final result of the test : WINNF.FT.C.SCS.1 is – passed

6.2 WINNF.FT.C.SCS.2

2023-08-18T05:30:43.700Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
2023-08-18T05:30:43.700Z - INFO - the selected test from the user : WINNF.FT.C.SCS.2 is starting now

6.3 WINNF.FT.C.SCS.3

2023-08-18T05:42:03.503Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
2023-08-18T05:42:03.503Z - INFO - the selected test from the user : WINNF.FT.C.SCS.3 is starting now

6.4 WINNF.FT.C.SCS.4

2023-08-18T06:15:05.266Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
2023-08-18T06:15:05.266Z - INFO - the selected test from the user : WINNF.FT.C.SCS.4 is starting now

6.5 WINNF.FT.C.SCS.5

2023-08-18T06:39:49.581Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13
2023-08-18T06:39:49.581Z - INFO - the selected test from the user : WINNF.FT.C.SCS.5 is starting now

7 CBSD RF Power Measurement

7.1 WINNF.PT.C.HBT.1(Max Eirp = 0 dBm/MHz)

2023-08-22T06:20:29.487Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-22T06:20:29.487Z - INFO - Selected spectrum frequency is {'lowFrequency': 3550000000L, 'highFrequency': 35900000000L}

2023-08-22T06:20:29.487Z - INFO - Granted Spectrum Max Eirp = 0dBm/MHz

2023-08-22T06:20:29.487Z - INFO - the selected test from the user : PowerMeasTest is starting now

2023-08-22T06:20:55.976Z - INFO - registration request from CBRS : {

```

  "registrationRequest": [
    {
      "airInterface": {
        "radioTechnology": "NR"
      },
      "cbsdCategory": "A",
      "cbsdInfo": {
        "firmwareVersion": "0.47.0.98",
        "hardwareVersion": "REV4",
        "model": "NR xCell 46116A",
        "softwareVersion": "v2.2.011.2703",
        "vendor": "Askey Corporation"
      },
      "cbsdSerialNumber": "G1E3A016666",
      "fccId": "H8N46116A",
      "installationParam": {
        "antennaGain": 6,
        "eirpCapability": 10,
        "height": 1.0,
        "heightType": "AGL",
        "indoorDeployment": true,
        "latitude": 62.5,
        "longitude": -155.5
      },
      "measCapability": [],
      "userId": "AskeyUserId-46116A"
    }
  ]

```

2023-08-22T06:20:55.992Z - INFO - engine sent successfully, the response to CBRS : {

```

  "registrationResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]

```

2023-08-22T06:21:00.696Z - INFO - spectrumInquiry request from CBRS : {

```

  "spectrumInquiryRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "inquiredSpectrum": [
        {
          "highFrequency": 35900000000.0,

```

```

        "lowFrequency": 3550000000.0
      }
    ]
  }
}
2023-08-22T06:21:00.696Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2023-08-22T06:21:00.696Z - INFO - engine sent successfully, the response to CBRS  :{
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3590000000.0,
            "lowFrequency": 3550000000.0
          },
          "maxEirp": 0,
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T06:21:04.836Z - INFO - grant request from CBRS  :{
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 0,
        "operationFrequencyRange": {
          "highFrequency": 3590000000.0,
          "lowFrequency": 3550000000.0
        }
      }
    }
  ]
}
2023-08-22T06:21:04.836Z - INFO - engine sent successfully, the response to CBRS  :{
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-29T06:21:04Z",
      "grantId": "707738462",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T06:21:10.726Z - INFO - heartbeat request from CBRS  :{

```

```
"heartbeatRequest": [  
  {  
    "cbsdId": "H8N46116AMock-SASG1E3A016666",  
    "grantId": "707738462",  
    "grantRenew": false,  
    "operationState": "GRANTED"  
  }  
]  
}  
2023-08-22T06:21:10.726Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-22T06:24:30Z"  
    }  
  ]  
}  
}  
2023-08-22T06:22:13.914Z - INFO - heartbeat request from CBRS : {  
  "heartbeatRequest": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "grantRenew": false,  
      "operationState": "AUTHORIZED"  
    }  
  ]  
}  
}  
2023-08-22T06:22:13.914Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-22T06:25:33Z"  
    }  
  ]  
}  
}  
2023-08-22T06:23:15.996Z - INFO - heartbeat request from CBRS : {  
  "heartbeatRequest": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "grantRenew": false,  
      "operationState": "AUTHORIZED"  
    }  
  ]  
}  
}  
2023-08-22T06:23:15.996Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-22T06:25:33Z"  
    }  
  ]  
}  
}
```

```

    "response": {
      "responseCode": 0
    },
    "transmitExpireTime": "2023-08-22T06:26:35Z"
  }
]
}
2023-08-22T06:24:18.496Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:24:18.512Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:27:38Z"
    }
  ]
}
2023-08-22T06:25:21.826Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:25:21.826Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:28:41Z"
    }
  ]
}
2023-08-22T06:26:24.171Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}

```

```
    }
  ]
}
2023-08-22T06:26:24.187Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:29:44Z"
    }
  ]
}
2023-08-22T06:27:26.641Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:27:26.641Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:30:46Z"
    }
  ]
}
2023-08-22T06:28:31.693Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:28:31.709Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:31:51Z"
    }
  ]
}
```



```
}
2023-08-22T06:29:34.726Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:29:34.743Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:32:54Z"
    }
  ]
}
2023-08-22T06:30:38.806Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:30:38.822Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T06:33:58Z"
    }
  ]
}
2023-08-22T06:31:43.588Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "707738462",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T06:31:43.605Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
```

```
        "cbsdId": "H8N46116AMock-SASG1E3A016666",
        "grantId": "707738462",
        "response": {
            "responseCode": 0
        },
        "transmitExpireTime": "2023-08-22T06:35:03Z"
    }
]
}
2023-08-22T06:32:47.154Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "707738462",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2023-08-22T06:32:47.170Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "707738462",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2023-08-22T06:36:07Z"
        }
    ]
}
2023-08-22T06:33:51.421Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "707738462",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2023-08-22T06:33:51.421Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "707738462",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2023-08-22T06:37:11Z"
        }
    ]
}
2023-08-22T06:34:55.846Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "707738462",
```

```
        "grantRenew": false,  
        "operationState": "AUTHORIZED"  
    }  
  ]  
}  
2023-08-22T06:34:55.846Z - INFO - engine sent successfully, the response to CBRS : {  
  "heartbeatResponse": [  
    {  
      "cbsdId": "H8N46116AMock-SASG1E3A016666",  
      "grantId": "707738462",  
      "response": {  
        "responseCode": 0  
      },  
      "transmitExpireTime": "2023-08-22T06:38:15Z"  
    }  
  ]  
}
```

7.2 WINNF.PT.C.HBT.1(Max Eirp = 10 dBm/MHz)

2023-08-22T03:44:00.933Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-22T03:44:00.933Z - INFO - Selected spectrum frequency is {'lowFrequency': 3550000000L, 'highFrequency': 3590000000L}

2023-08-22T03:44:00.933Z - INFO - Granted Spectrum Max Eirp = 10dBm/MHz

2023-08-22T03:44:00.933Z - INFO - the selected test from the user : PowerMeasTest is starting now

2023-08-22T03:44:26.730Z - INFO - registration request from CBRS : {

```
"registrationRequest": [
  {
    "airInterface": {
      "radioTechnology": "NR"
    },
    "cbsdCategory": "A",
    "cbsdInfo": {
      "firmwareVersion": "0.47.0.98",
      "hardwareVersion": "REV4",
      "model": "NR xCell 46116A",
      "softwareVersion": "v2.2.011.2703",
      "vendor": "Askey Corporation"
    },
    "cbsdSerialNumber": "G1E3A016666",
    "fccId": "H8N46116A",
    "installationParam": {
      "antennaGain": 6,
      "eirpCapability": 20,
      "height": 1.0,
      "heightType": "AGL",
      "indoorDeployment": true,
      "latitude": 62.5,
      "longitude": -155.5
    },
    "measCapability": [],
    "userId": "AskeyUserId-46116A"
  }
]
```

2023-08-22T03:44:26.762Z - INFO - engine sent successfully, the response to CBRS : {

```
"registrationResponse": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "response": {
      "responseCode": 0
    }
  }
]
```

2023-08-22T03:44:30.559Z - INFO - spectrumInquiry request from CBRS : {

```
"spectrumInquiryRequest": [
  {
    "cbsdId": "H8N46116AMock-SASG1E3A016666",
    "inquiredSpectrum": [
      {
        "highFrequency": 3590000000.0,
        "lowFrequency": 3550000000.0
      }
    ]
  }
]
```

```
}
2023-08-22T03:44:30.559Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2023-08-22T03:44:30.559Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3590000000.0,
            "lowFrequency": 3550000000.0
          },
          "maxEirp": 10,
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T03:44:34.823Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 10,
        "operationFrequencyRange": {
          "highFrequency": 3590000000.0,
          "lowFrequency": 3550000000.0
        }
      }
    }
  ]
}
2023-08-22T03:44:34.823Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-29T03:44:34Z",
      "grantId": "924498760",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T03:44:41.839Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,

```

```
        "operationState": "GRANTED"
      }
    ]
  }
2023-08-22T03:44:41.839Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:48:01Z"
    }
  ]
}
2023-08-22T03:45:44.385Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:45:44.401Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:49:04Z"
    }
  ]
}
2023-08-22T03:46:46.573Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:46:46.573Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:50:06Z"
    }
  ]
}
```

```
]
}
2023-08-22T03:47:49.040Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:47:49.056Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:51:09Z"
    }
  ]
}
2023-08-22T03:48:51.339Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:48:51.355Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:52:11Z"
    }
  ]
}
2023-08-22T03:49:55.338Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:49:55.338Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
```

```
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:53:15Z"
    }
  ]
}
2023-08-22T03:50:58.917Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:50:58.934Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:54:18Z"
    }
  ]
}
2023-08-22T03:52:02.354Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:52:02.368Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:55:22Z"
    }
  ]
}
2023-08-22T03:53:04.918Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
```



```
        "grantId": "924498760",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
    }
]
}
2023-08-22T03:53:04.918Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "924498760",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:56:24Z"
    }
  ]
}
```

7.3 WINNF.PT.C.HBT.1(Max Eirp = 20 dBm/MHz)

2023-08-22T03:05:32.247Z - INFO - WINNF TEST HARNESS RELEASE: 1.0.0.3 - 2018-November-13

2023-08-22T03:05:32.247Z - INFO - Selected spectrum frequency is {'lowFrequency': 3550000000L, 'highFrequency': 3590000000L}

2023-08-22T03:05:32.247Z - INFO - Granted Spectrum Max Eirp = 20dBm/MHz

2023-08-22T03:05:32.247Z - INFO - the selected test from the user : PowerMeasTest is starting now

2023-08-22T03:05:56.153Z - INFO - registration request from CBRS : {

```

  "registrationRequest": [
    {
      "airInterface": {
        "radioTechnology": "NR"
      },
      "cbsdCategory": "A",
      "cbsdInfo": {
        "firmwareVersion": "0.47.0.98",
        "hardwareVersion": "REV4",
        "model": "NR xCell 46116A",
        "softwareVersion": "v2.2.011.2703",
        "vendor": "Askey Corporation"
      },
      "cbsdSerialNumber": "G1E3A016666",
      "fccId": "H8N46116A",
      "installationParam": {
        "antennaGain": 6,
        "eirpCapability": 30,
        "height": 1.0,
        "heightType": "AGL",
        "indoorDeployment": true,
        "latitude": 62.5,
        "longitude": -155.5
      },
      "measCapability": [],
      "userId": "AskeyUserId-46116A"
    }
  ]

```

2023-08-22T03:05:56.168Z - INFO - engine sent successfully, the response to CBRS : {

```

  "registrationResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]

```

2023-08-22T03:06:00.496Z - INFO - spectrumInquiry request from CBRS : {

```

  "spectrumInquiryRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "inquiredSpectrum": [
        {
          "highFrequency": 3590000000.0,
          "lowFrequency": 3550000000.0
        }
      ]
    }
  ]

```

```
}
2023-08-22T03:06:00.496Z - INFO - The requested spectrum is in the range, SpectrumInquiry response code
is 0
2023-08-22T03:06:00.513Z - INFO - engine sent successfully, the response to CBRS : {
  "spectrumInquiryResponse": [
    {
      "availableChannel": [
        {
          "channelType": "GAA",
          "frequencyRange": {
            "highFrequency": 3590000000.0,
            "lowFrequency": 3550000000.0
          },
          "maxEirp": 20,
          "ruleApplied": "FCC_PART_96"
        }
      ],
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T03:06:06.107Z - INFO - grant request from CBRS : {
  "grantRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "operationParam": {
        "maxEirp": 20,
        "operationFrequencyRange": {
          "highFrequency": 3590000000.0,
          "lowFrequency": 3550000000.0
        }
      }
    }
  ]
}
2023-08-22T03:06:06.107Z - INFO - engine sent successfully, the response to CBRS : {
  "grantResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "channelType": "GAA",
      "grantExpireTime": "2023-08-29T03:06:06Z",
      "grantId": "294121494",
      "heartbeatInterval": 60,
      "response": {
        "responseCode": 0
      }
    }
  ]
}
2023-08-22T03:06:12.980Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,

```

```

    "operationState": "GRANTED"
  }
]
}
2023-08-22T03:06:12.980Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:09:32Z"
    }
  ]
}
2023-08-22T03:07:18.043Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:07:18.043Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:10:38Z"
    }
  ]
}
2023-08-22T03:08:22.230Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:08:22.246Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:11:42Z"
    }
  ]
}

```

```
]
}
2023-08-22T03:09:24.654Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:09:24.654Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:12:44Z"
    }
  ]
}
2023-08-22T03:10:26.983Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:10:26.983Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:13:46Z"
    }
  ]
}
2023-08-22T03:11:29.920Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:11:29.920Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
```

```
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:14:49Z"
    }
  ]
}
2023-08-22T03:12:35.279Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:12:35.279Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:15:55Z"
    }
  ]
}
2023-08-22T03:13:38.450Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:13:38.467Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:16:58Z"
    }
  ]
}
2023-08-22T03:14:41.029Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
```

```
        "grantId": "294121494",
        "grantRenew": false,
        "operationState": "AUTHORIZED"
    }
]
}
2023-08-22T03:14:41.045Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:18:01Z"
    }
  ]
}
2023-08-22T03:15:45.263Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:15:45.263Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:19:05Z"
    }
  ]
}
2023-08-22T03:16:49.263Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:16:49.279Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
    }
  ]
}
```

```
        "transmitExpireTime": "2023-08-22T03:20:09Z"
    }
]
}
2023-08-22T03:17:51.811Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "294121494",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2023-08-22T03:17:51.826Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "294121494",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2023-08-22T03:21:11Z"
        }
    ]
}
2023-08-22T03:18:57.293Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "294121494",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
2023-08-22T03:18:57.309Z - INFO - engine sent successfully, the response to CBRS : {
    "heartbeatResponse": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "294121494",
            "response": {
                "responseCode": 0
            },
            "transmitExpireTime": "2023-08-22T03:22:17Z"
        }
    ]
}
2023-08-22T03:20:03.171Z - INFO - heartbeat request from CBRS : {
    "heartbeatRequest": [
        {
            "cbsdId": "H8N46116AMock-SASG1E3A016666",
            "grantId": "294121494",
            "grantRenew": false,
            "operationState": "AUTHORIZED"
        }
    ]
}
}
```



```
2023-08-22T03:20:03.171Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:23:23Z"
    }
  ]
}
2023-08-22T03:21:06.529Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:21:06.545Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:24:26Z"
    }
  ]
}
2023-08-22T03:22:11.013Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:22:11.013Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:25:31Z"
    }
  ]
}
2023-08-22T03:23:14.230Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
```

```
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:23:14.246Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:26:34Z"
    }
  ]
}
2023-08-22T03:24:17.043Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:24:17.059Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:27:37Z"
    }
  ]
}
2023-08-22T03:25:19.667Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:25:19.667Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
```

```
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:28:39Z"
    }
  ]
}
2023-08-22T03:26:22.977Z - INFO - heartbeat request from CBRS : {
  "heartbeatRequest": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "grantRenew": false,
      "operationState": "AUTHORIZED"
    }
  ]
}
2023-08-22T03:26:22.977Z - INFO - engine sent successfully, the response to CBRS : {
  "heartbeatResponse": [
    {
      "cbsdId": "H8N46116AMock-SASG1E3A016666",
      "grantId": "294121494",
      "response": {
        "responseCode": 0
      },
      "transmitExpireTime": "2023-08-22T03:29:42Z"
    }
  ]
}
```