

**Compliance Certification Services (Kunshan) Inc.** 

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# TEST REPORT

Application No.:	KSCR2111000258AT (SZCR2111023625AT)	
FCC ID:	2AG32EG8015QM11	
Applicant:	Baicells Technologies Co., Ltd.	
Address of Applicant:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China	
Manufacturer:	Baicells Technologies Co., Ltd.	
Address of Manufacturer:	9-10F, 1stBldg., No.81BeiqingRoad, Haidian District, Beijing, China	
Equipment Under Test (EU	IT):	
EUT Name:	LTE Turbo UE	
Model No.:	EG8015Q-M11	
Trade Mark:	Baicells	
Standard(s):	CBRSA-TS-9001-V1.0.0	
	WINNF-19-IN-00033 V1.0	
	FCC 47 CFR Part 96	
	FCC KDB 940660 D01 Part 96 CBRS Eqpt v03	
	KDB 940660 D02 CPE-CBSD Handshake Procedures v02	
	WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification	
Date of Receipt:	2021-10-15	
Date of Test:	2021-11-03 to 2021-11-04	
Date of Issue:	2021-11-29	
Test Result:	Pass*	

\* In the configuration tested, the EUT complied with the standards specified above.

ma fri

Eric Lin Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record			
Version	Description	Date	Remark
00	Original	2021-11-29	/

Authorized for issue by:		
	Damon zhou	
	Damon Zhou / Project Engineer	
	Eni fri	
	Om m	
	Eric Lin / Reviewer	



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## 2 Test Summary

ltem	Standard	Test Case ID	Result
Multi-Step registration	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.1	Pass
Single-Step registration for CBSD with CPI signed data	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.5	Pass
Missing Required parameters (responseCode 102)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.8	Pass
Pending registration (responseCode 200)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.10	Pass
Invalid parameter (responseCode 103)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.12	Pass
Blacklisted CBSD (responseCode 101)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.14	Pass
Unsupported SAS protocol version (responseCode 100)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.16	Pass
Group Error (responseCode 201)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.REG.18	Pass
Unsuccessful Grant responseCode=400 (INTERFERENCE)	WINNF-TS-0122- V1.0.2	WINNF.FT.D.GRA.1	Pass
Unsuccessful Grant responseCode=401 (GRANT_CONFLICT)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.GRA.2	Pass
Heartbeat Success Case (first Heartbeat Response)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.1	Pass
Heartbeat responseCode=105 (DEREGISTER)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.3	Pass
Heartbeat responseCode=500 (TERMINATED_GRANT)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.4	Pass
Heartbeat responseCode=501 (SUSPENDED_GRANT) in First Heartbeat Response	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.5	Pass
Heartbeat responseCode=501 (SUSPENDED_GRANT) in Subsequent Heartbeat Response	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.6	Pass
Heartbeat responseCode=502 (UNSYNC_OP_PARAM)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.7	Pass
Heartbeat Response Absent (First Heartbeat)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.9	Pass
Heartbeat Response Absent (Subsequent Heartbeat)	WINNF-TS-0122- V1.0.2	WINNF.FT.C.HBT.10	Pass
Successful Relinquishment	WINNF-TS-0122- V1.0.2	WINNF.FT.C.RLQ.1	Pass
Successful Deregistration	WINNF-TS-0122- V1.0.2	WINNF.FT.C.DRG.1	Pass



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ltem	Standard	Test Case ID	Result
Successful TLS connection between UUT and SAS Test Harness	WINNF-TS-0122- V1.0.2	WINNF.FT.C.SCS.1	Pass
TLS failure due to revoked certificate	WINNF-TS-0122- V1.0.2	WINNF.FT.C.SCS.2	Pass
TLS failure due to expired server certificate	WINNF-TS-0122- V1.0.2	WINNF.FT.C.SCS.3	Pass
TLS failure when SAS Test Harness certificate is issue by unknown CA	WINNF-TS-0122- V1.0.2	WINNF.FT.C.SCS.4	Pass
TLS failure when certificate at the SAS Test Harness is corrupted	WINNF-TS-0122- V1.0.2	WINNF.FT.C.SCS.5	Pass
UUT RF Transmit Power Measurement	WINNF-TS-0122- V1.0.2	WINNF.PT.C.HBT	Pass
SAS Version: 1.0.0.3		•	

The UUT is a CPE-CBSD product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

#### Test standards:

#### CBRSA-TS-9001-V1.0.0

**CBRS Alliance Certification Test Plan** 

#### WINNF-TS-0122-V1.0.2

Test and Certification for Citizens Broadband Radio Service (CBRS); Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT)

#### WINNF-19-IN-00033 V1.0

CBRS CPE-CBSD as UUT Test Guidelines

KDB 940660 D01 Part 96 CBRS Eqpt v03

KDB 940660 D02 CPE-CBSD Handshake Procedures v02



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## 4 General Information

## 4.1 Details of E.U.T.

Power supply:	Adapter Model No.: G0720-240-100
	Input: AC100-240V, 50/60Hz, MAX 0.75A
	Output: DC 24.0V, 1.0A, 24.0W
Sample Type:	Fixed device
CBSD Class:	B (Outdoor CPE)
Transmitter Frequency Band:	LTE Band 48
Transmitter Frequency Range:	3550~3700MHz
Hardware Version:	ver.A
Software Version:	BaiCE_LT_1.0.16
Test sample:	202104131448 (S/N)
Antenna Gain:	13dBi
MIMO Type:	2T4R MIMO

## 4.2 Description of CBSD/DP Support Features

Condition	Feature Description	Supported
C1	Mandatory for UUT which supports multi-step registration message.	Y
C2	Mandatory for UUT which supports single-step registration with no CPI- signed data in the registration message. By definition, this is a subset of Category A devices which determine all registration information, including location, without CPI intervention.	N
C3	Mandatory for UUT which supports single-step registration containing CPI- signed data in the registration message.	Y
C4	Mandatory for UUT which supports RECEIVED_POWER_WITHOUT_GRANT measurement report type.	N
C5	Mandatory for UUT which supports RECEIVED_POWER_WITH_GRANT measurement report type.	N
C6	Mandatory for UUT which supports parameter change being made at the UUT and prior to sending a deregistration.	N

Y: Supported

N: Not supported



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## 4.3 Summary of Test Results

WINNF-TS-0122			
Classes Test Case Items Pass Items Pass Rate (%			
FT (CBSD, DP/CBSD)	25	25	100
PT (CBSD, DP/CBSD)	1	1	100
Total	25	25	100

Note:

1. Functional Test (FT): Test to validate the conformance of the Protocols and functionalities implemented in the CBSD/DP UUT to the requirements developed by WInnForum and supporting FCC/DoD requirements.

2. Field/Performance Test (PT): Test to check the capability of the CBSD/DP UUT to support various traffic models and actual operations in the field.

Duration and Duty Cycle		
Period	Limit	Test Result
10-second	1-second	Pass
300-second	10-second	Pass
3600-second	20-second	Pass

Note: Limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS. This time should not exceed 1 second within any 10-second period, 10seconds within any 300second period, or 20 seconds within any 3600-second period.

## 4.4 Modification Record

- 1. The Pass/Fail criteria "UUT shall not transmit RF" is replaced by "CPE-CBSD UUT shall not transmit user traffic".
- 2. The Pass/Fail criteria "UUT shall stop transmission" is replaced by CPE-CBSD UUT shall stop transmitting user traffic"



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No.	Item	Measurement Uncertainty
1	Radio Frequency	± 7.25 x 10 <sup>-8</sup>
2	RF conducted power	± 0.75dB
3	Temperature test	± 1°C
4	Humidity test	± 3%
5	Supply voltages	± 1.5%
6	Time	± 3%

## 4.5 Measurement Uncertainty

## 4.6 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
EPC	Lanner Electronics Inc.	LICA-1513A	LR202002004052
Router	TP-LINK	TL-R860+	1175379002425
		mBS1105	
Base station	Baicells	(FCC ID: 2AG32MBS110596N)	120200007219BSP0001

## 4.7 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

## 4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.



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## 5 Equipment List

Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Laptop	Lenovo	Pro-13API	REF.	1	/
(With SAS Test hamess)	Echovo	2019	No.SEA1800	,	,
Spectrum Analyzer	R&S	FSV40	101493	2021-10-18	2022-10-17
Shield Room	SAEMC	MSR433	SEM001-11	2021-03-11	2023-03-12
Coaxial Cable	SGS	N/A	SEM031-01	2021-07-10	2022-07-09
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2021-09-26	2022-09-25



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## 6 Test Method and Environment

## 6.1 CBSD/DP Conformance and Performance

Test Requirement:	CBRS CBSD Test Specification WINNF-TS-0122-V1.0.2
Test Method:	CBRS CBSD Test Specification WINNF-TS-0122-V1.0.2
	WINNF-IN-0156_WInnForum_SAS_Test_Harness_CBSD_UUT_Tutorial_
	v1_0_0_1

## 6.2 CPE-CBSD Handshake Procedures

Test Requirement:	KDB 940660 D02 CPE-CBSD Handshake Procedures v02
Test Method:	WINNF-19-IN-00033 V1.0
	KDB 940660 D02 CPE-CBSD Handshake Procedures v02

## 6.3 CBSD Test Procedure

- a. Connect the UUT to SAS Test Harness system and RF Test instruments via the CBSD interface and RF components. The highest level is set to test configuration.
- b. UUT shall be UTC time synchronized
- c. The frequency band is granted and set as UUT supported Modulation and Channels, transmitted power of the UUT according to it granted parameters from the SAS Test Harness.
- d. Each test case results were recorded and validated by SAS Test Harness system and RF instruments test cases was recorded test results from SAS Test Harness system.

## 6.4 Duration and Duty Cycle Measurement

The CPE-CBSD shall validate and ensure that limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS.

## 6.5 Duration and Duty Cycle Test Procedure

- a. CPE-CBSD as UUT does not receive any RF signal from its "Compatible BTS-CBSD" (FCC ID: 2AG32MBS110596N), so CPE-CBSD as UUT does not transmit. UUT shall be UTC time synchronized.
- b. Use the WinnForum SAS Harness #1 for CPE-CBSD as UUT and run test case WINNF.FT.C.GRA.1 for CPE-CBSD as UUT.
- c. CPE-CBSD as UUT starts to receive the RF signal from its "Compatible BTS-CBSD", so CPE-CBSD can start communicating with the WinnForum SAS Harness #1. Make note of the time when RF Test equipment logs the first transmission from CPE-CBSD which is above 23dBm/10MHz this is the start time of the {X time out of Y time}.
- d. When the test case WINNF.FT.C.GRA.1 finishes and the questions appear on the WinnForum SAS Harness #1 console, do NOT answer the questions. Wait until Y time has passed from step #3. During this Y time, the RF test equipment is logging the amount of time CPE-CBSD as UUT transmitted EiRP above 23dBm/10MHz. The amount of time logged for transmitting EIRP above 23dBm/10MHz is the X time.
- e. Answer the questions on the WinnForum SAS Harness #1 console so the WinnForum SAS Harness #1 is ready for the next test.



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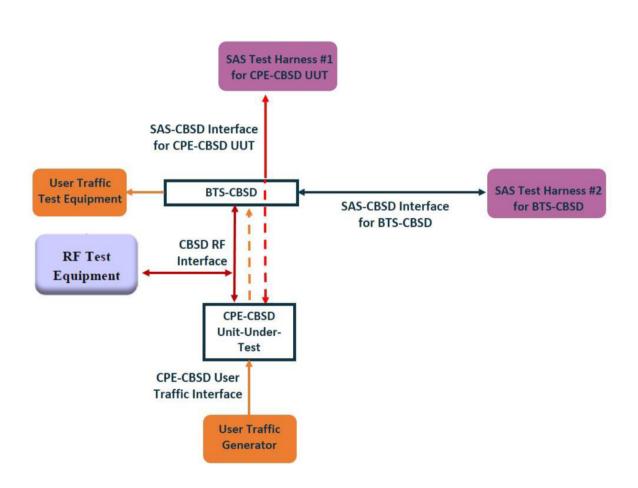


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## 6.6 Test Environment

Test Harness Version:	V1.0.0.3
Operating System:	Microsoft Windows 10
TLS Version:	1.2
Python Version:	2.7.13
Environmental Conditions:	25deg. C, 65%RH
Input Power:	120Vac, 60Hz

## 6.7 Test Setup

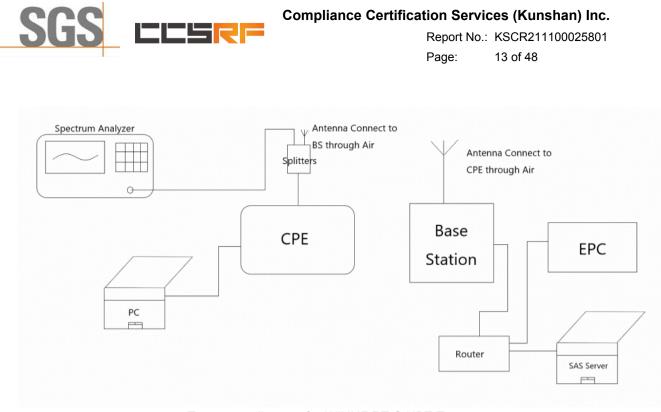


CPE-CBSD as UUT, BTS-CBSD direct communication without Domain Proxy



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Test setup diagram for WINNF.PT.C.HBT Test case



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## 7 Test Data

### 7.1 CBSD Registration Process

#### 7.1.1 WINNF.FT.C.REG.1

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	<ul> <li>CBSD sends correct Registration request information, as specified in [n.5], to the SAS Test Harness:</li> <li>The required userId, fccId and cbsdSerialNumber registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges.</li> <li>Any REG-conditional or optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges.</li> <li>Note: It is outside the scope of this document to test the Registration information that is supplied via another means.</li> </ul>	∎ Pass	□ Fail
3	SAS Test Harness sends a CBSD Registration Response as follows: - cbsdld = C - measReportConfig shall not be included - responseCode = 0		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	<b>∎</b> Pass	□ Fail



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#### 7.1.2 WINNF.FT.C.REG.5

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> <li>All of the required and REG-Conditional parameters shall be configured and CPI signature provided</li> </ul>		
2	<ul> <li>CBSD sends Registration request to the SAS Test Harness:</li> <li>The required userId, fccId and cbsdSerialNumber and REG-Conditional cbsdCategory, airInterface, measCapability and cpiSignatureData registration parameters shall be sent from the CBSD and conform to proper format and acceptable ranges.</li> <li>Any optional registration parameters that may be included in the message shall be verified that they conform to proper format and are within acceptable ranges.</li> </ul>	∎ Pass	□ Fail
3	SAS Test Harness sends a CBSD Registration Response as follows: - cbsdld = C - measReportConfig shall not be included. - responseCode = 0		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.3 WINNF.FT.C.REG.8

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: <ul> <li>SAS response does not include cbsdld</li> <li>responseCode = 102</li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.4 WINNF.FT.C.REG.10

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: <ul> <li>SAS response does not include cbsdld</li> <li>responseCode = 200</li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=200) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.5 WINNF.FT.C.REG.12

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: <ul> <li>SAS response does not include cbsdld</li> <li>responseCode = 103</li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=103) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.6 WINNF.FT.C.REG.14

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: <ul> <li>SAS response does not include cbsdld</li> <li>responseCode = 101</li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=101) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.7 WINNF.FT.C.REG.16

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows:         -       SAS response does not include cbsdld         -       responseCode = 100		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=100) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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#### 7.1.8 WINNF.FT.C.REG.18

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT is in the Unregistered state</li> </ul>		
2	CBSD sends a Registration request to SAS Test Harness.		
3	SAS Test Harness rejects the request by sending a CBSD Registration Response as follows: <ul> <li>SAS response does not include cbsdld</li> <li>responseCode = 201</li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=201) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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## 7.2 CBSD Spectrum Grant Process

### 7.2.1 WINNF.FT.C.GRA.1

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness, with cbsdld = C</li> </ul>		
2	UUT sends valid Grant Request.	∎ Pass	□ Fail
3	<ul> <li>SAS Test Harness sends a Grant Response message, including</li> <li>cbsdld=C         <ul> <li>responseCode = 400</li> </ul> </li> </ul>		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=0) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail

#### 7.2.2 WINNF.FT.C.GRA.2

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness, with cbsdld = C</li> </ul>		
2	UUT sends valid Grant Request.	∎ Pass	□ Fail
3	SAS Test Harness sends a Grant Response message, including - cbsdld=C - responseCode = 401		
4	After completion of step 3, SAS Test Harness will not provide any positive response (responseCode=401) to further request messages from the UUT.		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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## 7.3 CBSD HeartBeat Process

#### 7.3.1 WINNF.FT.C.HBT.1

#	Test Execution Steps	Res	ults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness, with cbsdld = C</li> </ul>		
2	<ul> <li>UUT sends a message:</li> <li>If message is type Spectrum Inquiry Request, go to step 3, or</li> <li>If message is type Grant Request, go to step 5</li> </ul>		
3	<ul> <li>UUT sends Spectrum Inquiry Request. Validate:</li> <li>cbsdld = C</li> <li>List of frequencyRange objects sent by UUT are within the CBRS frequency range</li> </ul>	∎ Pass	□ Fail
4	<ul> <li>SAS Test Harness sends a Spectrum Inquiry Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>availableChannel is an array of availableChannel objects</li> <li>responseCode = 0</li> </ul>		-
5	<ul> <li>UUT sends Grant Request message. Validate:</li> <li>cbsdld = C</li> <li>maxEIRP is at or below the limit appropriate for CBSD category as defined by Part 96</li> <li>operationFrequencyRange, F, sent by UUT is a valid range within the CBRS band</li> </ul>	∎ Pass	□ Fail
6	<ul> <li>SAS Test Harness sends a Grant Response message, including the parameters:</li> <li>cbsdld = C</li> <li>grantId = G = a valid grant ID</li> <li>grantExpireTime = UTC time greater than duration of the test</li> <li>responseCode = 0</li> </ul>		
7	<ul> <li>UUT sends a first Heartbeat Request message.</li> <li>Verify Heartbeat Request message is formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>operationState = "GRANTED"</li> </ul>	∎ Pass	□ Fail
8	<ul> <li>SAS Test Harness sends a Heartbeat Response message, with the following parameters:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>transmitExpireTime = current UTC time + 200 seconds</li> <li>responseCode = 0</li> </ul>		
9	<ul> <li>For further Heartbeat Request messages sent from UUT after completion of step 8, validate message is sent within latest specified heartbeatInterval, and:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>operationState = "AUTHORIZED"</li> <li>and SAS Test Harness responds with a Heartbeat Response message including the following parameters:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>transmitExpireTime = current UTC time + 200 seconds</li> <li>responseCode = 0</li> </ul>	∎ Pass	□ Fail



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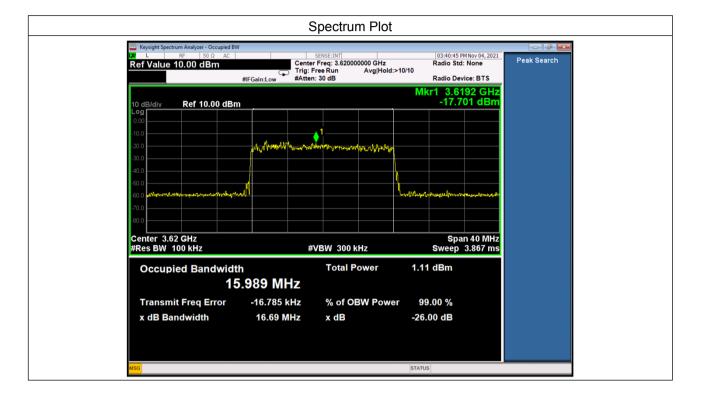
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#### 7.3.2 WINNF.FT.C.HBT.3

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantId = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface</li> </ul>		-
2	<ul> <li>UUT sends a Heartbeat Request message.</li> <li>Ensure Heartbeat Request message is sent within Heartbeat Interval specified in the latest Heartbeat Response, and formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>operationState = "AUTHORIZED"</li> </ul>		
3	<ul> <li>SAS Test Harness sends a Heartbeat Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>transmitExpireTime = T = Current UTC time</li> <li>responseCode = 105 (DEREGISTER)</li> </ul>		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	<ul> <li>Monitor the RF output of the UUT. Verify:</li> <li>UUT shall stop transmission within (T + 60 seconds) of completion of step 3</li> </ul>	∎ Pass	□ Fail



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#### 7.3.3 WINNF.FT.C.HBT.4

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantld = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface</li> </ul>		-
2	<ul> <li>UUT sends a Heartbeat Request message.</li> <li>Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>operationState = "AUTHORIZED"</li> </ul>	∎ Pass	□ Fail
3	<ul> <li>SAS Test Harness sends a Heartbeat Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>transmitExpireTime = T = current UTC time</li> <li>responseCode = 500 (TERMINATED_GRANT)</li> </ul>		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	<ul> <li>Monitor the RF output of the UUT. Verify:</li> <li>UUT shall stop transmission within (T + 60 seconds) of completion of step 3</li> </ul>	∎ Pass	□ Fail



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#### 7.3.4 WINNF.FT.C.HBT.5

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantId = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in GRANTED, but not AUTHORIZED state (i.e. has not performed its first Heartbeat Request)</li> </ul>		_
2	<ul> <li>UUT sends a Heartbeat Request message.</li> <li>Verify Heartbeat Request message is formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>operationState = "GRANTED"</li> </ul>	∎ Pass	□ Fail
3	<ul> <li>SAS Test Harness sends a Heartbeat Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>transmitExpireTime = T = current UTC time</li> <li>?responseCode = 501 (SUSPENDED_GRANT)</li> </ul>		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
	<ul> <li>Monitor the SAS-CBSD interface. Verify either A OR B occurs:</li> <li>A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>operationState = "GRANTED"</li> </ul>	∎ Pass	□ Fail
5	<ul> <li>B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters:</li> <li>cbdsld = C</li> <li>grantld = G</li> <li>Monitor the RF output of the UUT. Verify:</li> <li>UUT does not transmit at any time</li> </ul>		



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#### 7.3.5 WINNF.FT.C.HBT.6

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantld = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface</li> </ul>		
2	UUT sends a Heartbeat Request message. Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	<b>■</b> Pass	□ Fail
3	<ul> <li>SAS Test Harness sends a Heartbeat Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>grantld = G</li> <li>transmitExpireTime = T = current UTC time</li> <li>responseCode = 501 (SUSPENDED_GRANT)</li> </ul>		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	<ul> <li>Monitor the SAS-CBSD interface. Verify either A OR B occurs:</li> <li>A. UUT sends a Heartbeat Request message. Ensure message is sent within latest specified heartbeatInterval, and is correctly formatted with parameters: <ul> <li>cbsdld = C</li> <li>grantld = G</li> <li>operationState = "GRANTED"</li> </ul> </li> <li>B. UUT sends a Relinquishment request message. Ensure message is correctly formatted with parameters: <ul> <li>cbdsld = C</li> <li>grantld = G</li> <li>cbdsld = C</li> <li>grantld = G</li> </ul> </li> <li>Monitor the RF output of the UUT. Verify: <ul> <li>UUT shall stop transmission within (T+60) seconds of completion of step 3</li> </ul> </li> </ul>	∎ Pass	□ Fail



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#### 7.3.6 WINNF.FT.C.HBT.7

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantId = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface</li> </ul>		
2	<ul> <li>UUT sends a Heartbeat Request message.</li> <li>Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>operationState = "AUTHORIZED"</li> </ul>	∎ Pass	□ Fail
3	SAS Test Harness sends a Heartbeat Response message, including the following parameters: cbsdld = C grantId = G transmitExpireTime = T = current UTC time • responseCode = 502 (UNSYNC_OP_PARAM)		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	<ul> <li>Monitor the SAS-CBSD interface. Verify:</li> <li>UUT sends a Grant Relinquishment Request message. Verify message is correctly formatted with parameters:         <ul> <li>cbsdld = C</li> <li>grantld = G</li> </ul> </li> <li>Monitor the RF output of the UUT. Verify:         <ul> <li>UUT shall stop transmission within (T+60) seconds of completion of step 3</li> </ul> </li> </ul>	<b>■</b> Pass	□ Fail



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#### 7.3.7 WINNF.FT.C.HBT.9

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantld = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in GRANTED, but not AUTHORIZED state(i.e. has not performed its first Heartbeat Request)</li> </ul>		
2	<ul> <li>UUT sends a Heartbeat Request message.</li> <li>Ensure Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>operationState = "GRANTED"</li> </ul>	∎ Pass	□ Fail
3	<ul> <li>After completion of step 2, SAS Test Harness does not respond to any further</li> <li>messages from UUT to simulate loss of network connection</li> </ul>		
4	Monitor the RF output of the UUT from start of test to 60 seconds after step 3. Verify: At any time during the test, UUT shall not transmit on RF interface	∎ Pass	□ Fail



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#### 7.3.8 WINNF.FT.C.HBT.10

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has registered successfully with SAS Test Harness</li> <li>UUT has a valid single grant as follows: <ul> <li>valid cbsdld = C</li> <li>valid grantld = G</li> <li>grant is for frequency range F, power P</li> <li>grantExpireTime = UTC time greater than duration of the test</li> </ul> </li> <li>UUT is in AUTHORIZED state and is transmitting within the grant bandwidth F on RF interface</li> </ul>	-	
2	UUT sends a Heartbeat Request message. Verify Heartbeat Request message is sent within latest specified heartbeatInterval, and is formatted correctly, including: • cbsdld = C • grantId = G • operationState = "AUTHORIZED"	∎ Pass	□ Fail
3	<ul> <li>SAS Test Harness sends a Heartbeat Response message, including the following parameters:</li> <li>cbsdld = C</li> <li>grantId = G</li> <li>transmitExpireTime = T = current UTC time + 200 seconds</li> <li>responseCode = 0</li> </ul>		
4	After completion of step 3, SAS Test Harness shall not allow any further grants to the UUT.		
5	<ul> <li>Monitor the RF output of the UUT. Verify:</li> <li>UUT shall stop all transmission on RF interface within (transmitExpireTime + 60 seconds), using the transmitExpireTime sent in Step 3.</li> </ul>	∎ Pass	□ Fail



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## 7.4 CBSD Relinquishment Process

#### 7.4.1 WINNF.FT.C.RLQ.1

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT has successfully registered with SAS Test Harness, with cbsdld=C</li> <li>UUT has received a valid grant with grantId = G</li> <li>UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant.</li> <li>Invoke trigger to relinquish UUT Grant from the SAS Test Harness</li> </ul>		
2	<ul> <li>UUT sends a Relinquishment Request message. Verify message contains all required parameters properly formatted, and specifically:</li> <li>cbsdld = C</li> <li>grantId = G</li> </ul>	∎ Pass	□ Fail
3	SAS Test Harness shall approve the request with a Relinquishment Response message with parameters: - cbsdld = C - grantld = G • responseCode = 0		
4	<ul> <li>After completion of step 3, SAS Test Harness will not provide any additional positive</li> <li>response (responseCode=0) to further request messages from the UUT</li> </ul>		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall stop RF transmission at any time between triggering the relinquishment and UUT sending the relinquishment request</li> </ul>	<b>■</b> Pass	□ Fail



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## 7.5 CBSD Deregistration Process

#### 7.5.1 WINNF.FT.C.DRG.1

#	Test Execution Steps	Re	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with SAS Test Harness</li> <li>UUT has successfully registered with SAS Test Harness, with cbsdld=C</li> <li>UUT has received a valid grant with grantId = G</li> <li>UUT is in Grant State AUTHORIZED and is actively transmitting within the bounds of its grant.</li> <li>Invoke trigger to deregister UUT from the SAS Test Harness</li> </ul>		
2	UUT sends a Relinquishment request and receives Relinquishment response with ● responseCode=0		
3	<ul> <li>UUT sends Deregistration Request to SAS Test Harness with cbsdld = C.</li> </ul>	∎ Pass	□ Fail
4	<ul> <li>SAS Test Harness shall approve the request with a Deregistration</li> <li>Response message with parameters:</li> <li>cbsdld = C</li> <li>responseCode = 0</li> </ul>		
5	<ul> <li>After completion of step 3, SAS Test Harness will not provide any additional positive</li> <li>response (responseCode=0) to further request messages from the UUT.</li> </ul>		
6	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 4 is complete. This is the end of the test. Verify:</li> <li>UUT stopped RF transmission at any time between triggering the deregistration and either A OR B occurs:         <ul> <li>UUT sending a Registration Request message, as this is not mandatory B.</li> <li>UUT sending a Deregistration Request message</li> </ul> </li> </ul>	∎ Pass	□ Fail



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## 7.6 CBSD Security Validation

#### 7.6.1 WINNF.FT.C.SCS.1

#	Test Execution Steps	Res	sults
1	<ul> <li>UUT shall start CBSD-SAS communication with the security procedure</li> <li>The UUT shall establish a TLS handshake with the SAS Test Harness using configured certificate.</li> <li>Configure the SAS Test Harness to accept the security procedure and establish the connection</li> </ul>	∎ Pass	□ Fail
2	<ul> <li>Make sure that Mutual authentication happens between UUT and the SAS Test Harness.</li> <li>Make sure that UUT uses TLS v1.2</li> <li>Make sure that cipher suites from one of the following is selected,</li> <li>TLS_RSA_WITH_AES_128_GCM_SHA256</li> <li>TLS_RSA_WITH_AES_256_GCM_SHA384</li> <li>TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256</li> <li>TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384</li> <li>TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA384</li> <li>TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA384</li> </ul>	∎ Pass	□ Fail
3	<ul> <li>A successful registration is accomplished using one of the test cases described in section 6.1.4.1, depending on CBSD capability.</li> <li>UUT sends a registration request to the SAS Test Harness and the SAS Test Harness sends a Registration Response with responseCode = 0 and cbsdld.</li> </ul>	∎ Pass	□ Fail
4	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: <ul> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail

#### 7.6.2 WINNF.FT.C.SCS.2

#	Test Execution Steps	Res	sults
1	UUT shall start CBSD-SAS communication with the security procedures		□ Fail
2	<ul> <li>Make sure that UUT uses TLS v1.2 for security establishment.</li> <li>Make sure UUT selects the correct cipher suite.</li> <li>UUT shall use CRL or OCSP to verify the validity of the server certificate.</li> <li>Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.</li> </ul>	Pass Pass	Fail
3	• UUT may retry for the security procedure which shall fail.	∎ Pass	□ Fail
4	<ul> <li>SAS Test-Harness shall not receive any Registration request or any application data.</li> </ul>		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	∎ Pass	□ Fail



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#### 7.6.3 WINNF.FT.C.SCS.3

#	Test Execution Steps	Results	
1	UUT shall start CBSD-SAS communication with the security procedures		
		Pass	Fail
2	<ul> <li>Make sure that UUT uses TLS v1.2 for security establishment.</li> <li>Make sure UUT selects the correct cipher suite.</li> <li>UUT shall use CRL or OCSP to verify the validity of the server certificate.</li> <li>Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.</li> </ul>	∎ Pass	□ Fail
3	• UUT may retry for the security procedure which shall fail.	∎ Pass	□ Fail
4	<ul> <li>SAS Test-Harness shall not receive any Registration request or any application data.</li> </ul>		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail

#### 7.6.4 WINNF.FT.C.SCS.4

#	Test Execution Steps	Results	
1	<ul> <li>UUT shall start CBSD-SAS communication with the security procedures</li> </ul>		
	5	Pass	Fail
2	<ul> <li>Make sure that UUT uses TLS v1.2 for security establishment.</li> <li>Make sure UUT selects the correct cipher suite.</li> <li>UUT shall use CRL or OCSP to verify the validity of the server certificate</li> <li>Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.</li> </ul>	∎ Pass	□ Fail
3	• UUT may retry for the security procedure which shall fail.	∎ Pass	□ Fail
4	<ul> <li>SAS Test-Harness shall not receive any Registration request or any application data.</li> </ul>		
5	Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify: • UUT shall not transmit RF	∎ Pass	□ Fail



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#### 7.6.5 WINNF.FT.C.SCS.5

#	Test Execution Steps	Results	
1	<ul> <li>UUT shall start CBSD-SAS communication with the security procedures</li> </ul>		
		Pass	Fail
2	<ul> <li>Make sure that UUT uses TLS v1.2 for security establishment.</li> <li>Make sure UUT selects the correct cipher suite.</li> <li>UUT shall use CRL or OCSP to verify the validity of the server certificate</li> <li>Make sure that Mutual authentication does not happen between UUT and the SAS Test Harness.</li> </ul>	∎ Pass	□ Fail
3	• UUT may retry for the security procedure which shall fail.	∎ Pass	□ Fail
4	<ul> <li>SAS Test-Harness shall not receive any Registration request or any application data.</li> </ul>		
5	<ul> <li>Monitor the RF output of the UUT from start of test until 60 seconds after Step 3 is complete. This is the end of the test. Verify:</li> <li>UUT shall not transmit RF</li> </ul>	∎ Pass	□ Fail



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### 7.7 CBSD RF Power Measurement

#### 7.7.1 WINNF.PT.C.HBT

#	Test Execution Steps	Res	sults
1	<ul> <li>Ensure the following conditions are met for test entry:</li> <li>UUT has successfully completed SAS Discovery and Authentication with the SAS Test Harness</li> <li>UUT has registered with the SAS, with CBSD ID = C</li> <li>UUT has a single valid grant G with parameters {lowFrequency = FL, highFrequency = FH, maxEirp = Pi}, with grant in AUTHORIZED state, and grantExpireTime set to a value far past the duration of this test case</li> <li>Note: in order for the UUT to request a grant with the parameters {lowFrequency, highFrequency, maxEirp), the SAS Test Harness may need to provide appropriate guidance in the availableChannel object of the spectrumInquiry response message, and the operationParam object of the grant response message. Alternately, the UUT vendor may provide the ability to set those parameters on the UUT so that the UUT will request a grant with those parameters</li> </ul>		
2	<ul> <li>UUT and SAS Test Harness perform a series of Heartbeat Request/Response cycles, which continues until the other test steps are complete. Messaging for each cycle is as follows:</li> <li>UUT sends Heartbeat Request, including: <ul> <li>cbsdld = C</li> <li>grantId = G</li> </ul> </li> <li>SAS Test Harness responds with Heartbeat Response, including: o cbsdld = C</li> <li>grantId = G</li> <li>transmitExpireTime = current UTC time + 200 seconds</li> </ul>	-	
3	<ul> <li>responseCode = 0         Tester performs power measurement on RF interface(s) of UUT, and verifies it complies with the maxEirp setting, Pi. The RF measurement method is out of scope of this document, but may include additional configuration of the UUT, as required, to fulfill the requirements of the power measurement method.     </li> <li>Note: it may be required for the vendor to provide a method or configuration to bring the UUT to a mode which is required by the measurement methodology. Any such mode is vendor-specific and depends upon UUT behavior and the measurement methodology.     </li> </ul>	■ Pass	□ Fail



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RF measurement plot for Test Case:

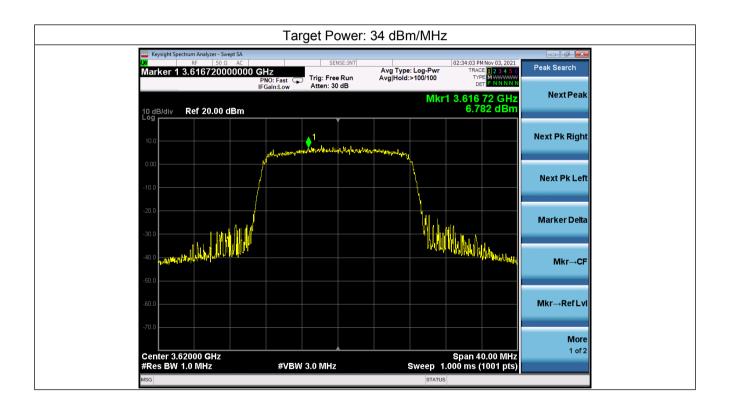
 Tester performs power measurement on RF interface(s) of UUT, and verifies it complies with the maxEirp setting, Pi. The RF measurement method is out of scope of this document, but may include additional configuration of the UUT, as required, to fulfill the requirements of the power measurement method.

Frequency (MHz)	Channel Bandwidth (MHz)	Granted maxEIRP (dBm/MHz)	Conduct (dBm/ Ant. 0		Antenna Gain (dBi)	Directional Gain (dB)	Cable Loss (dB)	maxEIRP (dBm/MHz)
3620	20	34	6.782	/	13	3.01	5	27.792
3620	20	20	-1.625	/	13	3.01	5	19.385

Note:

1.maxEIRP= Conducted PSD+ Antenna Gain+ Directional Gain+ Cable loss

2. Directional Gain=10log(n), n=2 for this product





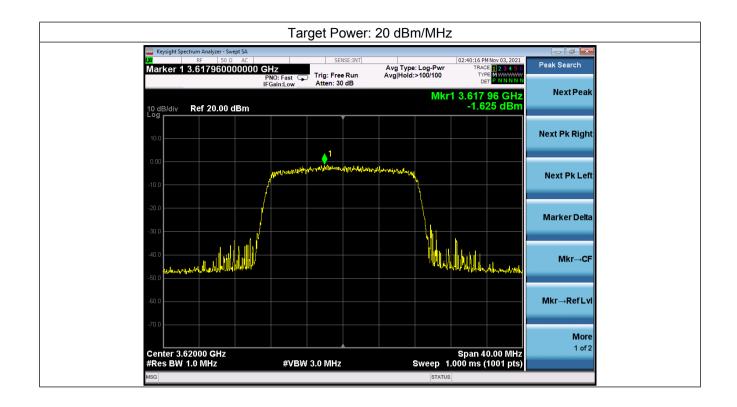
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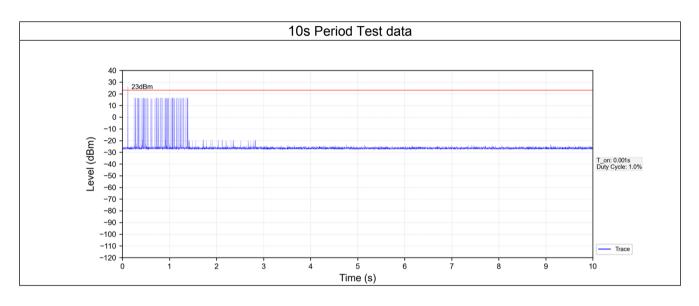
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# 7.8 Duration and Duty Cycle

Duration and Duty Cycle							
Period	Minimum Time (s)	Limit (s)	Pass / Fail				
10-second	0.001	1-second	Pass				
300-second	0.025	10-second	Pass				
3600-second	0.175	20-second	Pass				

Note:

- 1. Limited in duration and duty cycle to the minimum time necessary to get a grant from the SAS. This time should not exceed 1 second within any 10-second period, 10seconds within any 300-second period, or 20 seconds within any 3600-second period.
- 2. Pass = Minimum Time < Limit





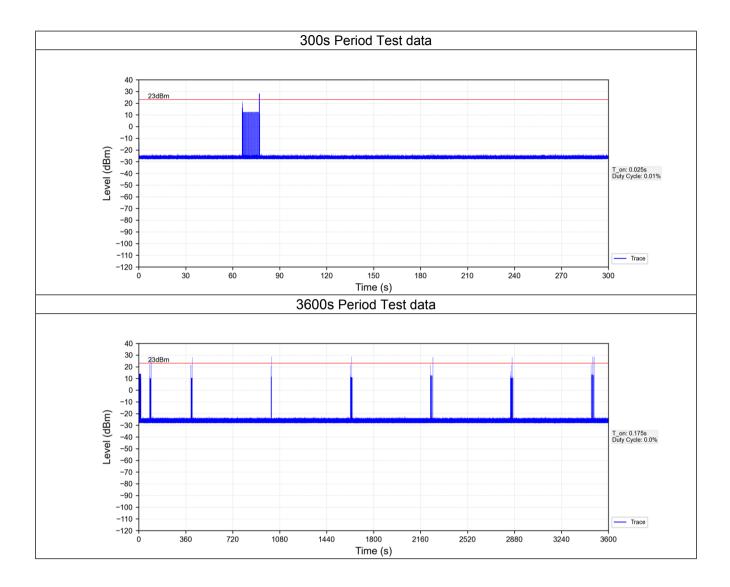
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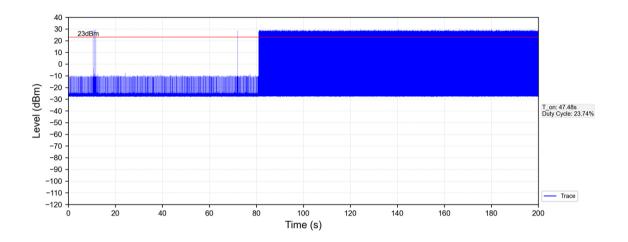
Test Report Form Version: Rev01



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# 7.9 Verify that the device will register with a SAS when operating below 23 dBm

Verified in test case WINNF.PT.C.HBT.1, the CPE-CBSD as UUT default EIRP is under 23 dBm and can register success with SAS. After granted, the CPE-CBSD UUT will adjust the EIRP by maxEirp.



#### Note:

- 1. Red color line in above plot represents the 23 dBm.
- 2. When Granted the product will transmit at power level above 23dBm.
- 3. Only when the product sends packets the product will work at max EIRP.



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# 8 Test Data Log

Test data log refer to log files (Log files appendix) except for securitytest cases which shows below.

# 8.1 WINNF.FT.C.SCS.1

tls			l 📃 🗏 e e e 🖽			$\boxtimes$	
tis							
	Time	Source	Destination	Protocol	Length Info		
	24 28.499318	192.168.24.2	192.168.24.103	TLSv1.2	571 Client Hello		
	25 28.512464	192.168.24.103	192.168.24.2	TLSv1.2	1454 Server Hello		
	27 28.512464	192.168.24.103	192.168.24.2	TLSv1.2	514 Certificate, Server Key Exchange, Co		
	31 28.619242	192.168.24.2	192.168.24.103	TCP		Win=37888 Len=1400 [TCP segment of a reassembled	PDU
	32 28.619242	192.168.24.2	192.168.24.103	TLSv1.2	1454 Certificate [TCP segment of a reass		
	33 28.619242	192.168.24.2	192.168.24.103	TLSv1.2		rify, Change Cipher Spec, Encrypted Handshake Mess	sage
	35 28.625368	192.168.24.103	192.168.24.2	TLSv1.2	105 Change Cipher Spec, Encrypted Hands	lake Message	
_	37 28.648965	192.168.24.2	192.168.24.103	TLSv1.2	248 Application Data		
	e 25: 1454 bytes	on wire (11632 hits), 14	54 bytes cantured (11632 b	its) on interfac	<pre>&gt; \Device\NPF {F0E1FDF8-C659-442E-9883-ACC26A0</pre>	ECB3A), id A	
			:74:01:04), Dst: Baicells			(05), 10 0	
		sion 4, Src: 192.168.24.			,		
			, Dst Port: 47870, Seq: 1,	Ack: 518 Len:	1499		
	sport Layer Secur		, bsc forc: 4/6/6, seq. 1,	Ack: Jib, Cent	1400		
		er: Handshake Protocol: :	Server Hello				
	Content Type: H						
	Version: TLS 1.						
	Length: 89	2 (0.0505)					
	<ul> <li>Handshake Proto</li> </ul>	col: Server Hello					
		pe: Server Hello (2)					
	Length: 85	per een een neize (1)					
		1.2 (0x0303)					
			a04f20e2580d87d10948c686a5	c9b683b97d			
	Session ID L						
			a7b184b38a151669efec514b6a	e24dde744d9bb9			
		: TLS_ECDHE_RSA_WITH_AES		102400074400000			
		Method: null (0)	(0,000000000000000000000000000000				
	Extensions L						
		enegotiation info (len=1	<b>)</b>				
		egotiation_info (65281)	,				
	Length: 1						
		tion Info extension					
		c_point_formats (len=4)					
		point_formats (11)					
	Length: 4						
		formate Longth, 2					
9		00 e0 4c 74 01 04 08 00	45 00 H-tE				
7	Transport Layer S					分组: 271 ・ 己显示: 36 (13.3%) 配置:	



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#### 8.2 WINNF.FT.C.SCS.2

🧕 🔘 📄 🗋 🗙					
1					× →
Time	Source	Destination	Protocol	Length Info	
81 87.025954 83 87.049355	192.168.24.2 192.168.24.103	192.168.24.103 192.168.24.2	HTTP	144 GET /crlserver.crl HTTP/1.1 1086 HTTP/1.1 200 OK	
ernet II, Src: Bai ernet Protocol Ver	cells_0c:ba:1d (48:bf:74 sion 4, Src: 192.168.24.:	:0c:ba:1d), Dst: RealtekS_ 2, Dst: 192.168.24.103	74:01:04 (00:e0:4	vice\NPF_{F0E1FDF8-C659-442E-9083-ACC26A0FCB3A}, id 0 :74:01:04)	
nsmission Control ertext Transfer Pr GET /crlserver.crl	otocol	0, Dst Port: 80, Seq: 1, A	ck: 1, Len: 90		
Host: 192.168.24.1	03\r\n				
Jser-Agent: Wget\r Connection: close\					
\r\n					
	http://192.168.24.103/c	rlserver.crl]			
[HTTP request 1/1] [Response in frame					
response in trame	. 05]				
01 c9 d2 d8 00 00	47 45 54 20 2f 63 72 6c	: 73 65 ······GE T /crlse			
Hypertext Transfe	r Protocol (http), 90 byte	(s)		分组: 162 ・ 己显示: 2 (1.2%)	1 配置:
		(\$)		分祖: 162 • L並示: 2 (1.26)	配置:
<sup>庆以太网 3</sup> 编辑(E) 视图(⊻)	r Protocol (http), 90 byte 跳转(G) 捕获(C) 分析(d	(s) 统计(5) 电话(Y) 无线(M) 题 ] ] 图 @ @ @ 题	业》 工具(I) 帮助(J		
R 以太网 3 編辑(E) 视图(V) え  ④  ■  ●  ※	r Protocol (http), 90 byte 跳转(G) 描获(C) 分析( ② <b>옥</b> 송 송 室 중 실	3) 统计(5) 电话(1) 无线(1) 2 📑 🗐 🔍 🔍 🔍 亚		Ð	
R 以太网 3 第4頃(E) - 初図(M) え ③	r Protocol (http), 90 byte 跳转(G) 描葉(C) 分析( ② 역 命 帝 營 중 Source	a) 统计(5) 电话(Y) 无线(M 2) 二 三 回 Q Q Q 証 Destination	Protocol	J Length Info	- 0
R以太陽 3 ) 编辑(E) 视图(Y) える (回) (回) (図) Time 23 21.177321	r Protocol (http), 90 byte 跳转(G) 捕获(C) 分析( ②	3) 统计(5) 电话(2) 无线(M) 2 ] 第 包、Q、Q、Q 第 Destination 192.166.24.103	Protocol TLSv1.2	) Length Info 571 Client Hello	- 0
R 以太网 3 第4頃(E) - 初図(M) え ③	r Protocol (http), 90 byte 跳转(G) 描葉(C) 分析( ② 역 命 帝 營 중 Source	a) 统计(5) 电话(Y) 无线(M 2) 二 三 回 Q Q Q 証 Destination	Protocol	d) Length Info 571 Client Hello 1454 [Server Hello	- 0
R 以大网 3 编辑(E) 视题(Y) 之 ②   ②   ②   X Time 23 21.177321 24 21.183618	r Protocol (http), 90 byte 跳转(G) 捕获(C) 分析(A 〇 Q 命 帝 瑩 予 」 Source 192.168.24.2 192.168.24.183	<ul> <li>3) 统计(5) 电话(Y) 无线(M)</li> <li>▲ 二 ● Q, Q, Q, II</li> <li>Destination 192.168.24.103</li> <li>192.168.24.2</li> </ul>	Protocol TLSv1.2 TLSv1.2	) Length Info 571 Client Hello	- 0
R以大照 3 第4項(E) 初盟(M) え (金) (本) Time 23 21.177321 24 21.183618 26 21.183618	r Protocol (http), 90 byte 副純(⑤) 捕获(⑥) 分析( ⑦ <b>Q</b> 参 命 螢 ⑦ <u>3</u> Source 192.168.24.18 192.168.24.183	<ol> <li>新計(5) 時請(1) 元結(0) 元結(0)</li> <li>二 三 Q, Q, Q, 重</li> <li>Destination</li> <li>192.166.24.103</li> <li>192.165.24.2</li> <li>192.165.24.2</li> </ol>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	- 0
R 以北明 3 ) 第編(E) 初題(M) え ④ ● ● ※ ※ Time 23 21.177321 24 21.183618 26 21.183618	r Protocol (http), 90 byte 副純(⑤) 捕获(⑥) 分析( ⑦ <b>Q</b> 参 命 螢 ⑦ <u>3</u> Source 192.168.24.18 192.168.24.183	<ol> <li>新計(5) 時請(1) 元結(0) 元結(0)</li> <li>二 三 Q, Q, Q, 重</li> <li>Destination</li> <li>192.166.24.103</li> <li>192.165.24.2</li> <li>192.165.24.2</li> </ol>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	- 0
R以大照 3 第4項(E) 初盟(M) え (金) (本) Time 23 21.177321 24 21.183618 26 21.183618	r Protocol (http), 90 byte 副純(⑤) 捕获(⑥) 分析( ⑦ <b>Q</b> 参 命 螢 ⑦ <u>3</u> Source 192.168.24.18 192.168.24.183	<ol> <li>新計(5) 時請(1) 元結(0) 元結(0)</li> <li>二 三 Q, Q, Q, 重</li> <li>Destination</li> <li>192.166.24.103</li> <li>192.165.24.2</li> <li>192.165.24.2</li> </ol>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	- 0
R以大照 3 第4項(E) 初盟(M) え (金) (本) Time 23 21.177321 24 21.183618 26 21.183618	r Protocol (http), 90 byte 副純(⑤) 捕获(⑥) 分析( ⑦ <b>Q</b> 参 命 螢 ⑦ <u>3</u> Source 192.168.24.18 192.168.24.183	<ol> <li>新計(5) 時請(1) 元結(0) 元結(0)</li> <li>二 三 Q, Q, Q, 重</li> <li>Destination</li> <li>192.166.24.103</li> <li>192.165.24.2</li> <li>192.165.24.2</li> </ol>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	- 0
RU大用 3 编辑(E) 初度(Y) Time 23 21.177321 23 21.177321 24 21.183618 26 21.283618 30 21.227238	r Protocol (http), 90 byte 副純化(g) 編載氏(g) 分析( ② <b>Q</b> 金 哈 徑 ③ ③ Source 192.168.24.163 192.168.24.163 192.168.24.163	<ul> <li>新計(5) 电话(Y) 无线(Y)</li> <li>第二 第二 第</li></ul>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	- 0
R LLLHN 3 (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (masket) (mas	r Protocol (http), 90 byte 部時(⑤) 捕获(⑥) 分析(化 ⑦ <b>Q</b> 命 命 答 <u>予</u> Source 192.168.24.183 192.168.24.183 192.168.24.183 192.168.24.183 192.168.24.183 192.168.24.183	<ul> <li>新計(5) 电话(Y) 无线(Y)</li> <li>第二 第二 第</li></ul>	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device/NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0	- 0
R LULHN 3 (R LULHN 3 (R LULHN 4 (R LULH	r Protocol (Attp), 90 byte 単純(G) 挿紙(C) 分析( ② <b>Q</b> 金 命 盛 至 <u>3</u> Source 192.168.24.2 192.168.24.103 194.103 194.10	<ol> <li>新計(5) 単語(1) 元結(1)</li> <li>第二 〇 〇 〇 〇 1</li> <li>192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.166.24.103</li> <li>54 bytes captured (11632 b</li> <li>174/91(94), bst: lsciells_105, bst: 192.166.24.2</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R (以大利 3 ) (編編(E) 初題(Y) 之 ④ ● ● ○ ○ 7 (1me 23 21.17721 24 21.183618 26 21.183618 38 21.227238 me 24: 1454 bytes ernet II, Src: Rea ernet Frotocol Ver smission Control	r Protocol (http), 90 byte 副純(g) 編成(C) 分析( で マ 金 金 管 了 500rce 192.168.24.2 192.168.24.103 192.168.24.103 192.168.24.2 00 mkire (11632 bits), 141 168.24.103 192.168.24.7 192.168.24.103 192.168.24.7 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.7 192.168.24.103 193.168	<ul> <li>3) 统计(5) 电话(Y) 无线(M)</li> <li>2) 第一 </li> <li>2) 第一 </li> <li>2) 4</li> <li>3) 9</li> <li>4, 26, 24, 103</li> <li>192, 168, 24, 103</li> <li>192, 168, 24, 103</li> <li>192, 168, 24, 103</li> <li>54 bytes captured (11632 b</li> <li>174:01:04), Dst: Baicells_</li> </ul>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R Litt# 3 General State of the	r Protocol (http), 90 byte 勝純(⑤) 播読(ℂ) 分析(化 ⑦ <b>℃</b> 余 命 肇 ⑦ <u>分</u> Source 192.168.24.2 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.2 0 n wire (11532 bits), 141 1845_74.10134 (00:00:46 192.168.24.2 192.168.24.1 192.168.24.5 193.168.24.5 193.168.24.5 193.168	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULH# 3 编辑(E) 初題(Y) 2 21.17721 23 21.17721 24 21.183618 26 21.183618 30 21.227238 me 24: 1454 bytes meret II, Src: Rea enret Protocol Ver missison Control sport Layer Security	Protocol (http), 90 bytel     B株(G) 語談(C) 分析(     C) マ ● 命 管 資      Source     192.168.24.2     192.168.24.2     192.168.24.103     192.10	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULH# 3 () () () () () () () () () () () () () (	Protocol (http), 90 bytei     開続(⑤) 捕続(⑥) 捕続(⑥) 分析(化	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RLLL用 3	Protocol (http), 90 bytei     開続(⑤) 捕続(⑥) 捕続(⑥) 分析(化	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R Litt# 3 WHA(E) #UE(2) 2 @	r Protocol (http), 90 bytei ■##4(g) ###X(C) 分析#/4 © <b>Q</b> ⊕ ⊕   § j Source 192.168.24.2 192.168.24.03 192.168.24.103 1	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
Time           Time           23 21.177321           23 21.177321           24 21.183618           30 21.227238           26 21.183618           30 21.227238           21.127521           24 21.183618           30 21.227238           24 22.145618           30 21.227238           26 21.183618           30 21.227238           21.227238           22.227238           23.227238	r Protocol (http), 90 bytei ■##4(g) ###X(C) 分析#/4 © <b>Q</b> ⊕ ⊕   § j Source 192.168.24.2 192.168.24.03 192.168.24.103 1	<ol> <li>新計(5) 転済(1) 无线(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
Time           1           2         21.177321           2         21.177321           24         21.183618           30         21.227238           20         21.23738           30         21.227238           30         21.227238           31         21.227238           32         21.227238           33         21.227238           34         21.227238           35         21.227238           36         21.227238           37         21.227238           38         21.227238           39         21.227238	Protocol (Attp), 90 bytel     BH4(G) 挿紙(C) 分析(d)     C ( 金 命 雪 全 )     Source     192.168.24.2     192.168.24.183     192.168.24     192.183     1	<ol> <li>新計(5) 転済(1) 不統(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0:ba:1d (48:bf:7	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULHN 3 MARCE 4020() 2 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	r Protocol (http), 90 byte BH4(G) HEE(C) 分析(A C Q ⊕ ⊕  至 § 3 Source 192.165.24.2 192.165.24.163 192.16	<ol> <li>新計(5) 転請(1) 元結(1)</li> <li>二 三 Q Q Q 至</li> <li>回estination 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2</li> <li>192.168.24.2</li> <li>192.168.24.103</li> <li>54 bytes captured (11632 b 73/4191-04), Dott Fasicalis_ 183, Datt 192.158.24.2</li> <li>, Dst Port: 57246, Seq: 1, Server Hello</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0c:ba:1d (48:bf:7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RLIXH8 3           Image: The second	Protocol (汕口)、90 bytel     BH4(G) 捕获(C) 分析(化     C) マ 命 命 室 京 分     Source     192.168.24.2     192.168.24.183     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.168.24     192.183.24     192.183.24     192.18     19	<ol> <li>新計(5) 転済(1) 不統(0)</li> <li>二 三 Q Q Q 重</li> <li>Destination 192.166.24.103</li> <li>192.166.24.2</li> <li>192.166.24.2</li> <li>192.165.24.103</li> <li>192.165.24.103</li> <li>54 bytes captured (11632 b 734/81/e8), Dst: Batcolls_ 105, Dst: 192.165.24.2</li> <li>, Dst Port: 57246, Seq: 1,</li> </ol>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0c:ba:1d (48:bf:7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RLLHR 3 Time 23 21.17731 24 21.183618 30 21.227235 24 21.183618 30 21.227235 26 21.183618 30 21.227235 27 21.183618 27	Protocol (Attp), 90 bytel     B株体(⑤) 結核(⑥) 分析(化	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回estination 192.166.24.103 192.166.24.103 192.166.24.2 192.168.24.2</li> <li>192.168.24.2</li> <li>192.168.24.103</li> <li>54 bytes captured (11632 b (74:91:404), Dati Baicolls_ 103, Dati 192.168.24.2</li> <li>103, Dati 192.168.24.2</li> <li>104, Dati Baicolls_ 105 Port: 572d6, Seq: 1,</li> <li>Server Hello</li> <li>36109e38cbf569c73fddd8c45d</li> </ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RLIXH8 3           Image: State of the state of	Protocol (http), 90 byte BH4(G) HBER(C) 分析(// C) Q ⊕ ⊕  至 3 Source 192.168.24.2 192.168.24.2 192.168.24.103 192.168.24.103 192.168.24.2 on wire (11632 bits), 14/ 1848.74.81044 (Oseas) 192.168.24.2 on wire (11632 bits), 14/ 1848.74.81044 (Oseas) 192.168.24.2 0 wire (11632 bits), 14/ 1848.74.81044 (Oseas) 192.168.24.2 193.168.24.2	<ol> <li>新計(5) 単語(1) 元統(1) ● (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ol>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULH# 3 Time 23 21.17721 24 21.183618 30 21.227235 24 21.183618 30 21.227235 26 21.183618 30 21.227235 27 21.183618 27	Protocol (http), 90 bytel     B株体(⑤) 結底(⑥) 分析(ル	<ol> <li>新計(5) 単語(1) 元統(1) ● (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ol>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R Litt# 3 General State of the second secon	Protocol (http), 90 bytel ■##(G) ###(C) 分析(// © <b>Q</b> ● ● ● ● ● ● ● Source 192.168.24.2 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.103 192.168.24.2 192.168.24.103 193.168.24.103 193.168.24.1	<ol> <li>新計(5) 単語(1) 元統(1) ● (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ol>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULT# 3 Time 23 21.17721 24 21.183618 30 21.227235 24 21.183618 30 21.227235 26 21.183618 30 21.227235 27 21.183618 27	Protocol (http), 90 bytel ■##4(G) ###K(C) 分析f(// C) <b>Q Q @ @ @ @ @ 3</b> Source 192.168.24.2 192.168.24.2 192.168.24.163 19	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R Litt# 3 File Composition Content of the second of the s	Protocol (http), 90 bytel ■##(G) ###(C) 分析(// © <b>Q</b> ● ● ● ● ● ● ● Source 192.168.24.2 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.103 192.168.24.2 192.168.24.103 193.168.24.103 193.168.24.1	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULHN 3 Gamma Content of the second of the	Protocol (http), 90 bytel ■##4(g) ###X(G) 分#fi/4 © <b>Q</b> • • • • • • • • • • • • • • • • • • •	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULHN 3 Gamma Content of the second of the	Protocol (http), 90 bytel     BHH(G) HER(C) 分析(//     C) Q ⊕ ⊕ ⊕ ≦ 1 ()     Source     192.168.24.2     192.168.24.2     192.168.24.103     192.168.24.104     192.169     192.169.104     192.169.24     192.169.24     192.169.24     192.169.24     192.169     192.169.24	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULH# 3 Time 23 21.17721 24 21.183618 30 21.227238 26 21.183618 30 21.227238 27 21.183618 30 21.227238 27 21.183618 30 21.227238 27 21.183618 30 21.227238 30	Protocol (http), 90 bytel ■##4(g) ###X(G) 分#fi/4 © <b>Q</b> • • • • • • • • • • • • • • • • • • •	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULTH 3 Time 23 21.17721 24 21.183618 30 21.227238 26 21.183618 30 21.227238 27 21.183618 30 21.227238 27 21.183618 30 21.227238 26 21.183618 30 21.227238 30 21.277238 30 21.27728 30 21.27	Protocol (http), 90 bytel     BHH(G) HERC() 分析(()     C () () () () () () () () () () () () ()	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
R Litt# 3 WHATE TIME 23 21.177321 24 21.183618 25 21.177321 24 21.183618 25 21.183618 26 21.183618 30 21.227238 Proceedings of the second se	Protocol (http), 90 bytel     BH#(G) HHE(C) 分析(L     C) Q ⊕ ⊕  至 3     Source     192.165.24.2     192.165.24.183     192.165.24.11     101	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 TL5V1.2 its) on interface 0c:ba:1d (48:bf;7 Ack: 518, Len: 1	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0
RULTH 3 Time 23 21.17721 24 21.183618 30 21.227238 24 21.183618 30 21.227238 26 21.183618 30 21.227238 30 21.277238 30 21.27728 30 21.2772	Protocol (http), 90 bytel     BHH(G) HERC(C) 分析((/     C) Q @ @ @ @ @ @ ]     Source     192.168.24.2     192.168.24.2     192.168.24.103     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.168.24.10     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.169.24     192.161.10     192.169.24     192.17     192.169.24     192.169.24	<ul> <li>第計(5) 電話(2) 天統(2)</li> <li>回目前(2) 平統(2)</li> <li>回目前(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)</li></ul>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 its) on interface 0c:ba:Id (48:bf:7 Ack: 518, Len: 1 bb6537d0232 d136aa4bba3824	) Length Info 571 Client Hello 1454 Server Hello 649 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Certificate Revoked) (Device\NPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 +:0c:ba:1d)	- 0



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#### 8.3 WINNF.FT.C.SCS.3

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s					$\times$
Time	Source	Destination	Protocol	Length Info	
183 183.564451	192.168.24.2	192.168.24.103	TLSv1.2	571 Client Hello	
184 183.578388	192.168.24.103	192.168.24.2	TLSv1.2	1454 Server Hello	
186 183.578388	192.168.24.103	192.168.24.2	TLSv1.2	513 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	
190 183.614381	192.168.24.2	192.168.24.103	TLSv1.2	61 Alert (Level: Fatal, Description: Certificate Expired)	
		1454 bytes captured (11632 ::74:01:04), Dst: Baicells_		ce \Device\NPF_{F0E1FDF8-C659-442E-9883-ACC26A0FC83A}, id 0 74:0c:ba:1d)	
ernet Protocol Ver	sion 4, Src: 192.168.24.	.103, Dst: 192.168.24.2			
		), Dst Port: 49828, Seq: 1,	Ack: 518, Len: 3	1400	
ansport Layer Secur					
	er: Handshake Protocol:	Server Hello			
Content Type: H Version: TLS 1.					
Length: 89	2 (020303)				
<ul> <li>Handshake Proto</li> </ul>	col: Server Hello				
	pe: Server Hello (2)				
Length: 85					
Version: TLS	1.2 (0x0303)				
> Random: e4cb	84289743e0ebe53879266e62	2b3a36c0c5759e8f8010bd61cc2	6fbfb4facd		
Session ID L	ength: 32				
Session ID:	fb6cb338464c3004356ee493	3f80ce555185456859bcf3d6f4a	f51af510326316		
		5_128_GCM_SHA256 (0xc02f)			
	Method: null (0)				
Extensions L					
	enegotiation_info (len=1	1)			
	egotiation_info (65281)				
Length: 1					
	tion Info extension c_point_formats (len=4)				
	c_point_formats (len=4) point_formats (11)				
Length: 4					
	formate Longth: 2				
0 of fe b7 4c 00 00	16 03 03 00 59 02 00 0	0 55 03 ····L···· ··Y···U			



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# 8.4 WINNF.FT.C.SCS.4

在捕获以太网 3					- 0	
	跳转(G)捕获(C)分析(A)	)统计(5)电话(Y)无线(M)	) 工具(I) 帮助(	Ы		
tls					$\times$ $\rightarrow$ $\cdot$	
Time	Source	Destination	Protocol	Length Info		
10 9.230791	192.168.24.2	192.168.24.103	TLSv1.2	571 Client Hello		
11 9.248867 13 9.248867	192.168.24.103 192.168.24.103	192.168.24.2 192.168.24.2	TLSv1.2 TLSv1.2	1454 Server Hello		
17 9.280971	192.168.24.2	192.168.24.20	TLSV1.2 TLSV1.2	515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA)		
		es captured (488 bits) on : 0c:ba:1d), Dst: RealtekS_:		<pre>k\PF_{F0E1FDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 </pre>		
Internet Protocol Ver	sion 4, Src: 192.168.24.2	, Dst: 192.168.24.103				
		, Dst Port: 5000, Seq: 510	8, Ack: 3262, Ler	1: 7		
Transport Layer Secur	ver: Alert (Level: Fatal,	Description: Unknown CA)				
Content Type: A	lert (21)	,				
Version: TLS 1.	2 (0x0303)					
Length: 2 ~ Alert Message						
Alert Message Level: Fatal	(2)					
	Unknown CA (48)					
	. ,					
	48 bf 74 0c ba 1d 08 00	45 00 ··Lt··H· t····E·			w1000	
🗹 以太网 3: <live c<="" th=""><th>capture in progress&gt;</th><th></th><th></th><th>分组:44 ・ 己显示:4 (9.1%)</th><th>配置:1</th></live>	capture in progress>			分组:44 ・ 己显示:4 (9.1%)	配置:1	
捕获 以太网 3					- 0	
⊧(E) 编辑(E) 视图(⊻)		) 统计( <u>S</u> ) 电话( <u>Y</u> ) 无线( <u>M</u> )	) 工具(I) 帮助(	Ы	- 0	
<b>e</b> 🧟 💿 🖿 🖻 🗙	単称(G) 捕获(C) 分析(A) ( ②   <b>Q</b> + += += += + = = ● = ● = ● ● ● ● ● ● ●		) 工具(I) 帮助(	Ы		
FE 编辑(E) 视图(Y) ■ <u>2</u> ③ ■ 日文 1s	. ()	2 <u>-</u> <b>Q Q Q I</b>			- 0	
FD编辑(E)视图(V)			) 工具(I) 帮助( Protocol TLSv1.2	H) Length Info 571 Client Hello		
FE 编辑(E) 视图(V) ■ 2 ④ ■ ■ 2 × 1 1s Time	Source	Destination	Protocol	Length Info	-	
(F) 编辑(E) 视图(V) ● 2 ③ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	No         Q         ⊕         ⊕         ≦         Y         Image: Source         Image: Source <th image:="" source<="" t<="" td=""><td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td><td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td><td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td><td>-</td></th>	<td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td> <td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td> <td>-</td>	Destination 192.168.24.103 192.168.24.2 192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	-
(E) 编辑(E) 视图(V) ■ ② ◎ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Cource 192.168.24.2 192.168.24.103	Destination 192.168.24.103 192.168.24.2	Protocol TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Sørver Hello	-	
(F) 编辑(E) 视图(V) ● ② ③ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	No         Q         ⊕         ⊕         ≦         Y         Image: Source         Image: Source <th image:="" source<="" t<="" td=""><td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td><td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td><td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td><td></td></th>	<td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td> <td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td> <td></td>	Destination 192.168.24.103 192.168.24.2 192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	
(F) 编辑(E) 视图(V) ● ② ③ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	No         Q         ⊕         ⊕         ≦         Y         Image: Source         Image: Source <th image:="" source<="" t<="" td=""><td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td><td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td><td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td><td></td></th>	<td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td> <td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td> <td></td>	Destination 192.168.24.103 192.168.24.2 192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	
(F) 编辑(E) 视图(V) ● ② ③ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	No         Q         ⊕         ⊕         ≦         Y         Image: Source         Image: Source <th image:="" source<="" t<="" td=""><td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td><td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td><td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td><td></td></th>	<td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td> <td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td> <td></td>	Destination 192.168.24.103 192.168.24.2 192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	
(F) 编辑(E) 视图(V) ● 2 ③ ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	No         Q         ⊕         ⊕         ≦         Y         Image: Source         Image: Source <th image:="" source<="" t<="" td=""><td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td><td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td><td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td><td></td></th>	<td>Destination 192.168.24.103 192.168.24.2 192.168.24.2</td> <td>Protocol TLSv1.2 TLSv1.2 TLSv1.2</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done</td> <td></td>	Destination 192.168.24.103 192.168.24.2 192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, Server Key Exchange, Certificate Request, Server Hello Done	
(F) 编辑(E) 视镜(y) 之 @ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Q         ⊕         ⊕         ≦         §           Source         192.168.24.2         192.168.24.103         192.168.24.103           192.168.24.103         192.168.24.2         192.168.24.2         192.168.24.2	Destination 192.166.24.103 192.166.24.2 192.166.24.2 192.168.24.2 192.168.24.103	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA)		
(f) 编辑(f) 视题(y) 《 《 》 》 》 》 》 18 Time 10 9.230791 11 9.248867 13 9.248867 13 9.248867 17 9.288971	Source           192.168.24.2           192.168.24.12           192.168.24.103           192.168.24.103           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2	Destination 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.103	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA)		
(F) 编辑(E) 视题(y) 之 @ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Source           192.168.24.2           192.168.24.183	A bytes captured (11632 b; 74:03:04), Dst: Baicells(	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
(日) 第単頃(日) 初題(小) え (日)	Source           192.168.24.2           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.2           192.168.24.2           192.168.24.13           192.168.24.2           192.168.24.8           192.168.24.8           192.168.24.9           192.168.24.8           192.168.24.7           192.168.24.7	Destination 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.103	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
	Source           192.168.24.2           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.2           192.168.24.103           192.168.24.103           192.168.24.2           192.168.24.103           <	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_f eso, Dst: 192.168.24.2         Dst Port: 50670, Seq: 1,         192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
	Source           192.168.24.2           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.2           on wire (11632 bits), 145           itks_74:81:84 (09:re8:4c:           sion 4, 5rc: 192.168.24.1           Protocol, 5r Ports 5080, ity           rer: Handshake Protocol: 5	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_f eso, Dst: 192.168.24.2         Dst Port: 50670, Seq: 1,         192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
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(日) 領規(日) 初配(小) え (日)	Source           192.168.24.2           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.2           on wire (11652 bits), 145           1teks_74:01.04 (00:06:14c;           sion 4, 5rc; 192.168.24.1           Protocol, 5rc Port: 5000, it           it           mothadshake (22)	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_0         05:05:102.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
(日) 編輯(日) 初題(女)     (日) 編輯(日) 初題(女)     (日)	Source           192.168.24.2           192.168.24.103	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_0         05:05:102.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
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(F) 編集(E) 初題(y)     (法 (A)	Source           192.168.24.2           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.193           192.168.24.2           on wire (11632 bits), 145           11tk5_74:81:84 (@neeti.4c:           ison 4, Src: 192.168.24.1           andshake Protocol, Src Port: 5000, ity           ity           andshake Protocol: Standshake Protocol: Standshake (22)           2 (@x0303)           xxx1: Start Hello (2)	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_0         05:05:102.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2	Protocol TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2 TLSv1.2	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
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(E) 編輯(E) 初題(y)  (E) 編輯(E) 初題(y)  (E) 236791  19 - 236971  19 - 236867  13 9 - 248667  13 9 - 248667  13 9 - 24867  17 9 - 286971  rame 11: 1454 bytes thernet 11, Src: Rea thernet 11, Src: Rea thernet 7 tission Control content type: H Version: Tts 1, Length: 89  V Handshake Protoc Handshake Protec Handshake Handshake Protec Handshake Han	Source           192.168.24.2           192.168.24.103           192.168.24.2           00 wire           192.168.24.2           01 wire           192.168.24.2           01 wire           192.168.24.2           02 wire           192.168.24.2           03 wire           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192	L         E         Q         Q         Q         I           Destination         192.166.24.103         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.2         192.166.24.103           44 bytes captured (11632 b: 74:03:64), Dst: Baicelle_0         05:05:102.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.165.24,103         192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
(f) 領領(f) 領題(y)     (g) (g) (g) (g) (g) (g) (g) (g) (g)	Image: Control of the second	<ul> <li>E a a a a a a a a a a a a a a a a a a a</li></ul>	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
(f) 編集(f) 知識(y)     (f) 編集(f) 知識(y)     (f) (f) (f) (f) (f) (f) (f) (f) (f)	Image: Control of the second	Apple 2         Apple 2         Apple 2         Apple 2           Destination         192.168.24.103         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.103         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.4         193.168.24.2         194.168.24         194.168.24           192.168.24.2         195.168.24.2         194.168.24         194.168.24           192.168.24.2         195.168.24.2         194.168.24         194.168.24	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
fen 領相(5) 初題(y)	Source           192.168.24.2           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.2           192.168.24.13           192.168.24.13           192.168.24.2           192.168.24.2           add the state of	Apple 2         Apple 2         Apple 2         Apple 2           Destination         192.168.24.103         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.103         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.2         192.168.24.2         192.168.24.2         192.168.24.2           192.168.24.4         193.168.24.2         194.168.24         194.168.24           192.168.24.2         195.168.24.2         194.168.24         194.168.24           192.168.24.2         195.168.24.2         194.168.24         194.168.24	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
Fine 編集 知識の     Fine      Fin	Source           192.168.24.2           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.2           on wire (11632 bits), 145           refs.181           refs.181           refs.181           refs.181           refs.181           refs.181           refs.181           refs.181           refs.181	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.2 192.168.24.24.25.25.25.25.25.25.25.25.25.25.25.25.25.	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
fen 領相(5) 初題(y)	Source           192.168.24.2           192.168.24.2           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.2           192.168.24.13           192.168.24.2           192.168.24.13           192.168.24.2           192.168.24.3           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.2           on wire (11632 bits), 145           Ireksymmetric (192.18.24.1           atmdshake (22)           2 (0x9393)           vccl: server Hello (2)           17288e8e581f6524982352654e           ns163652424da1075b692769a           :: TLS_COME_RSA_WITH_AES_MENDERSE           Method: II (0)           enegtri: 13           negoti: 10           enegtri: 13           negoti: 10           enegtri: 13	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
	Source           192.168.24.2           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.2           on wire (11632 bits), 145           stond 4, Src:192.168.24.1           protocol, Src Port: 5000, 114           protocol, Src Port: 5000, 12           standshake (22)           2 (0x0303)           xccl: Server Hello (2)           i: 1.2 (0x0303)           xcld5s2cdatdd75b50425c564e.orgth: 32           1a61d55c2datda75b50476As           Method: null (0)           ergth: 13           rength: info (sc281)           rength: info (sc281)	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
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	Source           192.168.24.2           192.168.24.12           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.183           192.168.24.193           192.168.24.193           192.168.24.193           192.168.24.2           on wire (11632 bits), 145           Itek5_74:01:04 (@0:e0:4c:           sion 4, Src: 192.168.24.1           protocol, Src Port: 5000, it           ver: Handshake Protocol: 5           2 (0x0303)           xccl: Server Hello (2)           si.2 (Scolet 6524)           isids5e2ddatd075b6937680452654e           xcolet 652           xcolet 652           theids in unl (0)           angth: 13           sengetiation_info (65221)           tition Info extension	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
(f) 領規(f) 領題(y)         (f)	Source           192.168.24.2           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.103           192.168.24.2           and Kather (00:00:4c:           sind, Src: 192.168.24.1           protocol, Src Port: 5000,           ity           rescrete Hello           protocol, Src Port: 5000,           itz           itz           itz           itz           itz           itz           itz           itz           itz </td <td>Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2</td> <td>Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :</td> <td>Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)</td> <td>-</td>	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)	-	
(f) 領規(f) 領題(y)         (f)	Image: Constraint of the second sec	Detination 192.168.24.103 192.168.24.103 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.2 192.168.24.3 192.168.24.2 192.168.2 192.168.24.24.24.24.24.24.24.24.24.24.24.2	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
	Source           192.168.24.2           192.168.24.12           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.13           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.3           192.168.24.3           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.3           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.24.2           192.168.25.25           192.168.25.25           192.168.25.25           110.158.25.25           111.258.25.25           112.166.252.25           113.258.255.25           113.258.255.25           113.258.255.255           113.258.255.255           113.258.255.255           113.258.255.255	A bytes captured (11632 b 192.168.24.103 192.168.24.2 1	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		
(f) 第単純(f) 初速(y)     (f) 第単純(f) 初速(y)     (f) 第一次     (f) 第	Image: Constraint of the second sec	•         •	Protocol TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 TLSV1.2 tts) on interface tc:ba:1d (48:bf: Ack: 518, Len: :	Length Info 571 Client Hello 1454 Server Hello 515 Certificate, server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Unknown CA) © \Device\WPF_{F0EIFDF8-C659-442E-9883-ACC26A0FCB3A}, id 0 Y4:0:ba:1d)		



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#### 8.5 WINNF.FT.C.SCS.5

tls						X -> -
	Time	Source	Destination	Protocol	Length Info	
	11 6.019208	192.168.24.2	192.168.24.103	TLSv1.2	571 Client Hello	
	12 6.034070 14 6.034070	192.168.24.103 192.168.24.103	192.168.24.2 192.168.24.2	TLSv1.2 TLSv1.2	1454 Server Hello	
	14 6.034070	192.168.24.103	192.168.24.2	TLSV1.2 TLSV1.2	514 Certificate, Server Key Exchange, Certificate Request, Server Hello Done 61 Alert (Level: Fatal, Description: Decrypt Error)	
the nte	rnet II, Src: Bai rnet Protocol Ver	cells_0c:ba:1d (48:bf:74 sion 4, Src: 192.168.24.:	:0c:ba:1d), Dst: RealtekS_7 2, Dst: 192.168.24.103	4:01:04 (00:e0:		
	smission Control sport Layer Secur		4, Dst Port: 5000, Seq: 518	, Ack: 3261, Lei	n: 7	
	Length: 2 Alert Message Level: Fatal Description:	(2) Decrypt Error (51)				
	bescription	beerype error (sir)				



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# 9 Photographs

### **9.1 EUT Constructional Details (EUT Photos)** Please Refer to Integral and internal photos for details.

- End of the Report -



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