



TVRC Errata Item

1 Errata Item Details

Title	Correction for test case TC_AN20_LIS_NFCF_04_x.A
Certification Release(s) affected	CR11
TVRC Errata Item ID	TVRC-EE106
Date Received	2018-01-16
TVRC ID	EE106
Date Resolved	2018-01-16
CC/TWG Kavi Comment Reference	n/a
TWG Change Request (CR)	CR533

2 Document Details

TC Document Name	Test Cases for Analog Version 2.0.11
TC Document Date	2017-06-22
TC Document Status	Published



3 Issue Summary

Functionality Area/Subject	Analog Test Cases
Test Case ID	TC_AN20_LIS_NFCF_04_x.A
Subcase	n/a
Scenario(s)	n/a
Step(s)	n/a

4 Issue Description

The ATR_REQ command is only used when Initiator and Target communicates using the NFC-DEP Protocol. The NFC Tag Device does not answer the response to the ATR_REQ command. This Analog Test case is shared with both NFC Universal Device Certification and NFC Tag Certification. This test case is thus not applicable for the NFC Tag Certification.



5 Approved Resolution

9.1.1.15 Power On and Off Test for NFC-F

TC Id	TC_AN20_LIS_NFCF_04_x	
RQ Reference	4.7.2.1 and 4.7.2.2 - Listening Device Reset	
Section Reference	4.7 - Listening Device Requirements for being Reset	
Test Purpose	<p>ensure that The NFC-F Listening Device under test is correctly reset.</p> <p>when The power level is reduced to maximum $V_{S,OV,RESET}$ for a time t_{FIELD_OFF}.</p>	
Comments	N/A	
Selection	<ul style="list-style-type: none"> <u>LP-NFC-DEP = TRUE</u> Sub cases: <ul style="list-style-type: none"> x=0: Use Bit rate 212kbps x=1: Use Bit rate 424kbps 	
Conditions	NFC Forum Reference Device	Poller 0
	Listener load for modulation condition setup	820 Ω
	Power Transfer ($V_{S,OV}$)	Minimum
	Carrier frequency ($f_{S,C}$)	Nominal
	Test positions	(1,0,0,0)
	t_{FIELD_OFF}	Nominal
	GT_F	Nominal
	$V_{S,OV,RESET}$	Maximum
Test Configuration Functions	<ul style="list-style-type: none"> <u>Error! Reference source not found.</u>[Configuration 1] Setup <u>Error! Reference source not found.</u>[Configuration 2] Measurement 	
Test Case Scenario	TC_AN20_LIS_NFCF_04_x.A	
Acceptance Criteria	The Listening Device under test shall function properly in each test condition.	

Scenario TC_TC_LIS_NFCF_04_x.A Power On and Off Test for NFC-F			
Step	Exchanges		Comments
1	Connect the Test Tool in Error! Reference source not found. [Configuration 1]—Setup.	LT	
2	Adjust the field until measuring a residual level of voltage $V_{S,OV,RESET}$ (rms) at the output of the sense coil, J ₄ of the NFC Forum – Reference Listener 1. Measure and record the according J2 voltage value of the NFC Forum – Reference Poller 0. The resulting voltage measured at J2 of the NFC Forum – Reference Poller 0 is further on referenced as $V_{GEN,J2,RESET}$	LT	
3	Adjust the field according to the test condition following Error! Reference source not found. [Sub-procedure 6]—Power Level.	LT	
4	Adjust waveform characteristics of Reset in Power On and Off Test scenario NFC-F specified in appendix Error! Reference source not found. E with corresponding t_{FIELD_OFF} and GT_F and $V_{S,OV,RESET}$ test conditions following Error! Reference source not found. [Sub-procedure 7]—Waveform Characteristics. Note for t_{FIELD_OFF} and $V_{S,OV,RESET}$ measurement: <ul style="list-style-type: none"> Measure the time t_{FIELD_OFF} from the point on which the envelope of waveform first falls below $V_{S,OV,RESET} * \sqrt{2}$ until it last rises above $V_{S,OV,RESET} * \sqrt{2}$. Measure $V_{OV,RESET}$ RMS voltage from the point on which the envelope of waveform first falls below $V_{S,OV,RESET} * \sqrt{2}$ until it last rises above $V_{S,OV,RESET} * \sqrt{2}$. 	LT	
5	Connect the Test Tool in Error! Reference source not found. [Configuration 2]—Measurement	LT	
6	Place the Listening Device under test on the NFC Forum Reference Polling Device in the test position according to the test conditions.	IUT	
7	Re-adjust the Test Tool generation until the voltage measured at J2 of the NFC Forum – Reference Poller 0 is $V_{GEN,J2,RESET}$ during t_{FIELD_OFF} .	LT	
8	Setup the Test Tool to send the sequence adjusted in steps 4 and 7 through the NFC Forum Reference Polling Device.	LT ► IUT	



Scenario TC_TC_LIS_NFCF_04_x.A Power On and Off Test for NFC-F		
Step	Exchanges	Comments
9	Verify that the Listening Device responds with all next valid command described in Appendix Error! Reference source not found. scenario. The Listening Device under test is considered to function properly.	LT ▶ IUT

6 Document Updates to be Applied

[Test Cases for Analog](#) Version 2.0.11

7 Information to the Authorized Labs

The test case TC_AN20_LIS_NFCF_04_x is not applicable for a Tag Device.

8 Information to the CA

The test case TC_AN20_LIS_NFCF_04_x is not applicable for a Tag Device.