



TVRC Errata Item

1 Errata Item Details

Title	Correction of the value of CON_DEVICES_LIMIT in the DTA specification v2.2.01
Certification Release(s) affected	CR9
TVRC Errata Item ID	TVRC-EE101
Date Received	2016-11-07
TVRC ID	EE101
Date Resolved	2016-11-07
CC/TWG Kavi Comment Reference	n/a
TWG Change Request (CR)	testingwg.00467.2016.CON_DEVICES_LIMIT for NFC-F in DTA 2 2 01 Sony NXP.000.docx

2 Document Details

TC Document Name	Device Tests for NFC Forum Analog, Digital Protocol, LLCP, SNEP and Type 1/2/3/4 Tags Application Specification Version 2.2.01
TC Document Date	2015-11-18
TC Document Status	Published



3 Issue Summary

Functionality Area/Subject	DTA
Test Case ID	TC_DP11_POL_NFCF_P2P_BI_1_x_y TC_DP11_POL_NFCF_P2P_BI_2_x_y TC_DP11_POL_NFCF_P2P_BI_34_x TC_DP11_POL_NFCF_P2P_BV_10_x_y TC_DP11_POL_NFCF_P2P_BV_11_x_y TC_DP11_POL_NFCF_P2P_BV_3_x_y TC_DP11_POL_NFCF_P2P_BV_6_x_y TC_DP11_POL_NFCF_P2P_BV_7_x_y TC_DP11_POL_NFCF_P2P_BV_9_x_y TC_DP11_POL_NFCF_P2P_BV_1_x_y_z TC_DP11_POL_NFCF_P2P_BV_2_x_y_z TC_DP11_POL_NFCF_P2P_BV_5_y TC_DP11_POL_NFCF_P2P_BV_8_y TC_DP11_POL_NFCF_P2P_BI_3_x_y TC_DP11_POL_NFCF_P2P_BV_4_x TC_DP11_POL_NFCF_UND_BV_3_x_y_z TC_DP11_POL_NFCF_UND_BI_1_x TC_DP11_POL_NFCF_UND_BV_1_x_y TC_DP11_POL_NFCF_T3T_BI_1_x TC_DP11_POL_NFCF_T3T_BV_1_x TC_DP11_POL_NFCF_T3T_BV_2_x_y TC_DP11_POL_NFCF_T3T_BV_3_x
Subcase	n/a
Scenario(s)	n/a
Step(s)	n/a



4 Issue Description

The test cases for NFC-F in Poll Mode are classified into two categories. One is for CON_DEVICES_LIMIT is equal to 1 (or 0) and another is for CON_DEVICES_LIMIT equal to 2 or larger.

Currently, the number of test case for CON_DEVICES_LIMIT=2 or larger in TR2015-B (CR9) is only one, TC_DP11_NFCF_UND_BV_51.

Next, see CON_DEVICES_LIMIT in the table below from the DTA v2.2.01. As you can see,

- CON_DEVICES_LIMIT is 02h in PATTERN_NUMBER=000Eh, 000Fh. In other words, PATTERN_NUMBER=000Eh, 000Fh should be used in **TC_DP11_NFCF_UND_BV_51**.
- CON_DEVICES_LIMIT is [ICS] in PATTERN_NUMBER=0000h to 000Dh. In other words, PATTERN_NUMBER=0000h to 000Dh should be used in **other test cases**.

The following table is from the DTA v2.2.01.

PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SESNF_REQ	SENSF_REQ_Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode	
									NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag	
0000h	1	0	0	1	Error! Reference source not found.	-	-	N0	Error! Reference source not found.	Loop-back, Section Error! Reference source not found.	-	Platform, Section Error! Reference source not found.	-	Loop-back, Section Error! Reference source not found.	Command and Exchange, Section Error! Reference source not found.
0001h	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	N0	Error! Reference source not found.	-	NDEF Read, Section Error! Reference source not found.	NDEF Read, Section Error! Reference source not found.	NDEF Read, Section Error! Reference source not found.	NDEF Read, Section Error! Reference source not found.	Command and Exchange, Section Error! Reference source not found.
0002h – 000Ch are omitted in this CR. The value of CON_DEVICES_LIMIT for 0002h ~ 000Ch is [ICS].															
000	1	0	0	1	0	-	-	N	Error! Reference	-	-	-	-	-	-

Dh								o	nce source not found.						
000 Eh	1	0	0	1	Error! Referen ce source not found.	12FC,0 0,00	-	N o	2	Loop- back, Section Error! Referen ce source not found.	-	-	Min Number of Block, Section 5.5.2	-	Comma nd Exchan ge, Section Error! Referen ce source not found.
000 Fh	1	0	1	1	Error! Referen ce source not found.	12FC,0 0,00	-	N o	2	Loop- back, Section Error! Referen ce source not found.	-	-	Min Number of Block, Section Error! Reference source not found.	-	Comma nd Exchan ge, Section Error! Referen ce source not found.

Here is the example and this is a problem for NFC-F in Poll Mode in TR2015-B.

If DUT supports CON_DEVICES_LIMIT=1,

- All NFC-F Poll test cases shall be tested except TC_DP11_NFCF_UND_BV_51.
Note: TC_DP11_NFCF_UND_BV_51 is used only when DUT supports CON_DEVICES_LIMIT is equal to 2 or larger.
- And they will pass if there is no problem in DUT.

If DUT supports CON_DEVICES_LIMIT=2 or larger,

- TC_DP11_NFCF_UND_BV_51 will pass if there is no problem in DUT.
- Other test cases for NFC-F in Poll Mode will fail because CON_DEVICES_LIMIT should be 1 (or 0) in order to pass it. This is a problem.

The following table summarizes the above description.

	TC_DP11_NFCF_UND_BV_51	Other test cases
CON_DEVICES_LIMIT=1 (or 0)	Not tested	Pass



CON_DEVICES_LIMIT=2 or larger	Pass	Fail ← This is a problem.
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This CR proposes to correct / update the DTA specification v2.2.01 and the TCMT v1.1.01 (accordingly) in order to solve this problem in TR2015-B (CR9).

However TR2015-B (CR9) has been launched. Therefore, before this CR is reflected in the DTA specification, I also would like all ATL and all people in charge of validation in TR2015-B (CR9) to temporarily reduce/change CON_DEVICES_LIMIT to “1” if CON_DEVICES_LIMIT for DUT is equal to 2 or larger when they execute other test cases.

Note: This CR doesn’t require any re-validation of tools.

5 Approved Resolution

PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SESNF_REQ	SENSF_REQ Reactivation	Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode
										NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag
000 0h	1	0	0	1	Error! Reference source not found.	-	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	Loop-back, Section Error! Reference source not found.	-	Platform, Section Error! Reference source not found.	-	Loop-back, Section Error! Reference source not found.	Command Exchange, Section Error! Reference source not found.
000 1h	1	0	0	1	Error! Reference	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not	-	NDEF Read, Section Error! Referen	NDEF Read, Section Error! Referen	NDEF Read, Section Error! Referen	NDEF Read, Section Error!	Command Exchange, Section



PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SESNF_REQ	SENSF_REQ Reactivation	Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode
										NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag
					source not found.				found. NFC-F: 1		ce source not found.	ce source not found.	ce source not found.	Reference source not found.	Error! Reference source not found.
000 2h	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	NDEF Write, Section Error! Reference source not found.	NDEF Write, Section Error! Reference source not found.	NDEF Write, Section Error! Reference source not found.	NDEF Write, Section Error! Reference source not found.	Command Exchange, Section Error! Reference source not found.
000 3h	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	Transition to READ-ONLY, Section Error! Reference source not found.	Transition to READ-ONLY, Section Error! Reference source not found.	Min Number of Block, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.
000 4h	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	-	-	Max Number of Service, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.
000 5h	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	-	-	Max Number of Block, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.



PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SENSE_REQ	SENSE_REQ Reactivation	Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode	
										NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag	
					nd.										not found.	not found.
000 6h	1	0	1	1	Error! Reference source not found.	12FC,00,00	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	Loop-back, Section Error! Reference source not found.	-	-	Min Number of Block, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.	
000 7h	1	0	0	1	Error! Reference source not found.	FFFF,01,0F	FFF F,00,03	Yes	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	Loop-back, Section Error! Reference source not found.	-	-	Min Number of Block, Section Error! Reference source not found.	Loop-back, Section Error! Reference source not found.	Command Exchange, Section Error! Reference source not found.	
000 8h	1	0	1	1	Error! Reference source not found.	FFFF,01,0F	FFF F,00,03	NFC-F only	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	Loop-back, Section Error! Reference source not found.	-	-	Min Number of Block, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.	
000 9h	1	3	0	1	Error! Reference source not found.	-	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	Loop-back, Section Error! Reference source not found.	-	-	-	-	Command Exchange, Section Error! Reference source not found.	
000	0	0	1	1	Error!	-	-	No	NFC-A and NFC-B:	-	-	-	-	-	Command	



PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SESNF_REQ	SENSF_REQ Reactivation	Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode
										NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag
Ah					Reference source not found.				Error! Reference source not found. NFC-F: 1						Exchange, Section Error! Reference source not found.
000 Bh	0	0	0	1	Error! Reference source not found.	-	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	-	-	-	-	Command Exchange, Section Error! Reference source not found.
000 Ch	1	0	0	0	Error! Reference source not found.	-	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	-	-	-	-	Command Exchange, Section Error! Reference source not found.
000 Dh	1	0	0	1	0	-	-	No	NFC-A and NFC-B: Error! Reference source not found. NFC-F: 1	-	-	-	-	-	-
000 Eh	1	0	0	1	Error! Reference source not found.	12FC,00,00	-	No	2	Loop-back, Section Error! Reference source not found.	-	-	Min Number of Block, Section Error! Reference source not	-	Command Exchange, Section Error! Reference source not



PATTERN_NUMBER	CON_POLL_B	CON_BITR_NFC_DEP	NFC-F_BIT RATE	CON_LISTEN_DEP_F	CON_LISTEN_T3TP	SESNF_REQ	SENSF_REQ Reactivation	Reactivation	CON_DEVICES_LIMIT	Test Transaction Functionality in Poll Mode					Listen Mode
										NFC-DEP	Type 1 Tag	Type 2 Tag	Type 3 Tag	Type 4 Tag	Type 3 Tag
													found.		found.
000 Fh	1	0	1	1	Error! Reference source not found.	12FC,00,00	-	No	2	Loop-back, Section Error! Reference source not found.	-	-	Min Number of Block, Section Error! Reference source not found.	-	Command Exchange, Section Error! Reference source not found.

6 Document Updates to be Applied

Device Tests for NFC Forum Analog, Digital Protocol, LLCP, SNEP and Type 1/2/3/4 Tags Application Specification Version 2.2.01

7 Information to the Authorized Labs

Ensure that an updated DTA according to this Erratum is used

8 Information to the CA

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