

Summary Errata and Clarifications to the HDCP Revision 2.2 on HDMI Compliance Test Specification

Page 7 **Source Capability**

Source_Authe_Count

Number of times the DUT attempts authentication before it transitions into the authenticated state. The "Source_Authe_Count" number of authentications is verified (1,2...or X)

Page 10 (STEP 1A-01-1)

Replace:

- If DUT does not read HDCP2Version register, then WARNING (Ref-1A-1)

With:

- If DUT does not read HDCP2Version register, then FAIL(Ref-1A-1)

Page 11 (STEP 1A-01-6) Add:

- If DUT transmits Data Island, Video Data, or Guard Band data during the keep-out period starting 508 TMDS character clocks past the active edge of VSYNC and ends 650 TMDS character clocks past the active edge of VSYNC, then FAIL (Ref-1A-10)

Page 13

TE de-asserts HDCP_HPD

TE asserts HDCP_HPD

ADD

- NOTE: The length of this HPD should be 100ms. Any proceeding HPD occurring mid test should remain at 100ms.

Page 13 (STEP 1A-03-1) Add:

- After HDCP_HPD is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of HDCP_HPD assert then FAIL (Ref-1A-7)

Page 14 (STEP 1A-04-1) Add:

- After HDCP_HPD is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of HDCP_HPD assert then FAIL (Ref-1A-7)

Page 15 (STEP 1A-05-1) Add:

- After HDCP_HPD is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of HDCP_HPD assert then FAIL (Ref-1A-7)

Page 16 (STEP 1A-06-1) Add:

- After HDCP_HPD is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of HDCP_HPD assert then FAIL (Ref-1A-7)

Page 17 (STEP 1A-07-1) Add:

- After REAUTH_REQ is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of REAUTH_REQ then FAIL (Ref-1A-7)

Remove:

- If DUT enables HDCP Encryption, then FAIL (Ref-1A-2)

Page 42 (STEP 1B-07-2) Add:

- After HDCP_HPD is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of HDCP_HPD assert then FAIL (Ref-1A-7)

Page 43 (STEP 1B-08-2) Add:

- After REAUTH_REQ is sent DUT may continue on with authentication/enable encryption, however if DUT does not restart authentication within 10 seconds of REAUTH_REQ then FAIL (Ref-1A-7)

Page 49 (STEP 2C-01-2) Add

- If DUT transmits facsimile keys for the r_{rx} value as part of the AKE_Send_Cert message, then FAIL (Ref-2C-5)

Page 52 (STEP 2C-02)

Under:

- DUT transmits AKE_Send_Cert message

Add:

- If DUT transmits facsimile keys for the r_{rx} value as part of the AKE_Send_Cert message, then FAIL (Ref-2C-5)
- If DUT transmits an r_{rx} value that is identical to the one previously sent in the AKE_Send_Cert message then FAIL (Ref- 2C-6)

Page 53 (STEP 2C-03-2)

Under:

- DUT transmits AKE_Send_Cert message

Add:

- If DUT transmits facsimile keys for the r_{rx} value as part of the AKE_Send_Cert message, then FAIL (Ref-2C-5)
- If DUT transmits an r_{rx} value found in the AKE_Send_Cert message that is identical to the one previously sent in the AKE_Send_Cert message, then FAIL (Ref- 2C-6)

Page 54 (STEP 2C-04-2)

Under:

- DUT transmits AKE_Send_Cert message

Add:

- If DUT transmits facsimile keys for the r_{rx} value as part of the AKE_Send_Cert message, then FAIL (Ref-2C-5)

- If DUT transmits an r_{rx} value that is identical to the one previously sent in the AKE_Send_Cert message then FAIL (Ref- 2C-6)

Page 55 (STEP 2C-05-02)

Under:

- DUT transmits AKE_Send_Cert message

Add:

- If DUT transmits facsimile keys for the r_{rx} value as part of the AKE_Send_Cert message, then FAIL (Ref-2C-5)
- If DUT transmits an r_{rx} value that is identical to the one previously sent in the AKE_Send_Cert message then FAIL (Ref- 2C-6)

Page 75 (STEP 3C-01-3)

- TE transmits RepeaterAuth_Stream_Manage message within 200ms after successful completion of Locality Check with Type set to 0

Replace above with:

- TE transmits RepeaterAuth_Stream_Manage message within 200ms after successful completion of Session Key Exchange with Type set to 0

Page 92 (STEP 3C-01-1) add

- If DUT does not propagate the correct format of Receiver ID's found in RepeaterAuth_Send_ReceiverID_List, then FAIL (Ref-3C-5)

References

Ref-1A-10

Reference	Requirement
Errata to HDCP on HDMI Specification Rev. 2.2 Pg. 53	It is required that no Data Island or Video Data, nor any Guard Band, be transmitted during a keep-out period that starts 508 TMDS character clocks past the active edge of VSYNC and ends 650 TMDS character clocks past the active edge of VSYNC.

Ref-2C-5

Reference	Requirement
Errata to HDCP on HDMI	E. 1 Facsimile Keys Note: the facsimile keys provided must be used ONLY for test purposes

Specification Rev. 2.2 Appendix E. Test Vectors		
	r _{rx}	3b a0 be de 0c 46 a9 91 e1 7a b0 fd 0f 54 40 52

Ref-2C-6

Reference	Requirement
2.13 Random Number Generation Pg. 45	The minimum entropy requirement for random values that are not used as secret key material (i.e. r _{tx} , r _{rx} , r _{iv} , r _n) is 40 random bits out of 64-bits. This means that a reasonable level of variability or entropy is established if out of 1,000,000 random (r _{tx} , r _{rx} , r _{iv} or r _n) values collected after the first authentication attempt (i.e. after power-up cycles on the HDCP Transmitter or HDCP Receiver logic), the probability of there being any duplicates in this list of 1,000,000 random values is less than 50%.