



PC Authoring

PC Video Format Authoring Software

**for DVD-R for General, DVD-R for DL, DVD-RW,
DVD-Download and DVD-Download for DL discs**

TEST SPECIFICATION

**Version 1.2
January 2009**

Amendment for PC Video Format Authoring Software TS Version 1.2 (January 2009)

The following pages were amended without changing the version number of the TS.

- **Amendment 1 (February 13, 2009)**

Page	Location	Amendment
Pages 14 to 15	Annex A	<ul style="list-style-type: none">• "Royal Philips Electronics" was deleted from the Class-A Lab list.• Class-A Lab information of "Industrial Technology Research Institute" was updated.
Page 19	Annex D	<ul style="list-style-type: none">• The Lab mark <*> was deleted from "Royal Philips Electronics".

- **Minor amendment (January 2010)**

Page	Location	Amendment
Pages 14 to 15	Annex A	<ul style="list-style-type: none">• Class-A Lab information of "PIONEER CORPORATION" and "Panasonic Corporation" were updated.
Pages 18 to 19	Annex D	<ul style="list-style-type: none">• Class-A Lab information of "PIONEER CORPORATION" and "Panasonic Corporation" were updated.

- **Amendment 2 (January 2012)**

Page	Location	Amendment
Pages 14 to 15	Annex A	<ul style="list-style-type: none">• "Crest Digital" and "Toshiba Corporation" were deleted from the Class-A Lab list.
Page 19	Annex D	<ul style="list-style-type: none">• DVD File System Verifier (TFSV03) from Toshiba was discontinued.

- **Amendment 3 (June 2012)**

Page	Location	Amendment
Page 14	Annex A	<ul style="list-style-type: none">• "Industrial Technology Research Institute" was deleted from the Class-A Lab list.

Conditions for Publication

Copyright

It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of DVD Format Verification. You may not copy the file or printed version of the document, or any part of it, for any other purpose without prior written permission from **DVD Format/Logo Licensing Corporation**.

Exemption

None will be liable for any damages from use of this document.

Publisher and Copyright Holder

DVD Format/Logo Licensing Corporation

Contributors

- Crest Digital (California, U.S.A.)
- Industrial Technology Research Institute (Hsinchu, Taiwan)
- Koninklijke Philips Electronics N.V. (Eindhoven, The Netherlands)
- Panasonic Corporation (Osaka, Japan)
- PIONEER CORPORATION (Tokyo, Japan)
- Sony Corporation (Tokyo, Japan)
- Time Warner Inc. (New York, U.S.A.)
- Toshiba Corporation (Tokyo, Japan)

Inquiry

For any further explanation of the contents of this document or in case of any perceived inconsistency or ambiguity of interpretation, please consult:

DVD Format/Logo Licensing Corporation

Address: 2F Shibadaimon Makita Bldg., 2-5-8 Shibadaimon, Minato-ku, Tokyo, 105-0012 Japan

Fax: +81-3-5777-2884

E-mail: info@dvdflc.co.jp Website: <http://www.dvdflc.co.jp>

Revision History

- March 2003
PC Video Format Authoring Software Test Specification Version 1.0 was drafted.
- April 1, 2003
PC Video Format Authoring Software Test Specification Version 1.0 was approved by VTF members.
- May 29, 2003
PC Video Format Authoring Software Test Specification Version 1.0 was approved by SC.
- June 2005
Version 1.0¹ updated Normative References and Class-A Lab List, and was edited as electronic files.
- February 7, 2008
PC Video Format Authoring Software Test Specification Version 1.1 was approved by TSTF members.
The Version 1.1 added DVD-Download disc as an applicable disc.
- January 9, 2009
PC Video Format Authoring Software Test Specification Version 1.2 was approved by TSTF members.
The Version 1.2 added DVD-Download for DL and DVD-R for DL disc as applicable discs.

Table of Contents

1. General	1
1.1 Scope	1
1.2 Normative References	1
1.3 Scope of Products Covered	2
1.4 Requirements for the product	2
2. DVD Logo	3
2.1 Definition of Terms Used	3
2.2 DVD Logo Mechanism	5
3. Test Conditions	7
4. Test Tools and Test Specifications	8
4.1 Test Tools	8
4.1.1 Test Discs	8
4.1.2 Verifiers	8
4.2 Test Specifications	10
4.2.1 Recording capability for DVD-R for General and/or DVD-R for DL disc	10
4.2.2 ADP_TY and ADP_ID check for DVD-R for General and/or DVD-R for DL disc	10
4.2.3 Recording capability for DVD-RW disc	11
4.2.4 ADP_TY and ADP_ID check for DVD-RW disc	11
4.2.5 Recording capability for DVD-Download and/or DVD-Download for DL disc	12
4.2.6 MPEG stream verification (Option)	13
Annex A	
List of Class-A Verification Labs	14
Annex B	
Glossary of Terms Used	16
Annex C	
Procedure for Class-A Verification Lab Product Submission	17
Annex D	
Test Tool Contact Information	18

Forms for DVD Format verification

Form 1EE

Preliminary Information for DVD Format Verification F1

Form 2EE

Test Information of DVD Format Verification F2

Form 3EE

Test result of Recording capability for DVD-R for General and/or DVD-R for DL disc F3

Form 4EE

Test result of ADP_TY and ADP_ID check for DVD-R for General and/or DVD-R for DL disc F5

Form 5EE

Test result of Recording capability for DVD-RW disc F6

Form 6EE

Test result of ADP_TY and ADP_ID check for DVD-RW disc F8

Form 7EE

Test result of Recording capability for DVD-Download and/or DVD-Download for DL disc F9

Form 8EE

Test result of MPEG stream verification (Option) F11

Form 9EE

Confirmation of DVD Format Verification F12

1. General

1.1 Scope

The scope of this Test Specification is the testing PC Video Format Authoring Software for compliance with DVD Specifications mentioned in **1.2**.

The test procedure described herein could be used by Class-A Verification Labs, Class-B Verification Labs and Quality Assurance Departments of PC Video Format Authoring Software manufactures.

The scope of this Test Specification is limited to product's compliance to DVD Specifications and not to evaluate performance of products.

1.2 Normative References

DVD Specifications for Recordable Disc for General (DVD-R for General)

Part 1: Physical Specifications Version 2.1

Optional Specifications 4x-speed DVD-R Revision 1.0

Optional Specifications 6x-speed DVD-R Revision 2.0

Optional Specifications 8x-speed DVD-R Revision 3.0

Optional Specifications 2x-speed DVD-R Revision 4.0

Optional Specifications 12x-speed DVD-R Revision 5.0

Optional Specifications 16x-speed DVD-R Revision 6.0

Part 2: File System Specifications Version 2.1

DVD Specifications for Recordable Disc for Dual Layer (DVD-R for DL)

Part 1: Physical Specifications Version 3.0

Optional Specifications 4x-speed DVD-R for DL Revision 1.0

Optional Specifications 6x-speed DVD-R for DL Revision 2.0

Optional Specifications 8x-speed DVD-R for DL Revision 3.0

Optional Specifications 10x-speed DVD-R for DL Revision 4.0

Optional Specifications 12x-speed DVD-R for DL Revision 5.0

Part 2: File System Specifications Version 3.0

DVD Specifications for Re-recordable Disc (DVD-RW)

Part 1: Physical Specifications Version 1.2

Optional Specifications 2x-speed DVD-RW Revision 1.0

Optional Specifications 4x-speed DVD-RW Revision 2.0

Optional Specifications 6x-speed DVD-RW Revision 3.0

Part 2: File System Specifications Version 1.0

DVD Specifications for Recordable Disc for General (DVD-R for General)

Part 1: Physical Specifications Version 2.x/Optional Specifications: DVD Download Disc for CSS Managed Recording (DVD-Download) Revision 1.0

Part 2: File System Specifications Version 2.x/Optional Specifications: DVD Download Disc for CSS Managed Recording (DVD-Download) Revision 1.0

Note: The Book Revision 1.0 was updated to the DVD-Download Book Version 1.0 in September 2008.

DVD Specifications for Download Disc (DVD-Download)

Part 1: Physical Specifications Version 1.0

Part 2: File System Specifications Version 1.0

DVD Specifications for Download Disc for Dual Layer (DVD-Download for DL)

Part 1: Physical Specifications Version 2.0

Part 2: File System Specifications Version 2.0

DVD Specifications for Read-Only Disc

Part 2: File System Specifications Version 1.0

Part 3: Video Specifications Version 1.1

1.3 Scope of Products Covered

- PC Video Format Authoring Software (for DVD-R for General and/or DVD-R for DL and/or DVD-RW and/or DVD-Download (Rev.1.0 and/or Ver.1.0) and/or DVD-Download for DL discs)

Note 1: The product covered shall be for home use or office personal use. Tools for Studio use (Authoring tools to be used for DVD-ROM/DVD-Video and/or DVD-Download and/or DVD-Download for DL discs) shall not be covered.

Note 2: The product for DVD-Download Rev.1.0 means that it complies with the "DVD-R for General Part 1/2, Optional Specifications: DVD Download Disc for CSS Managed Recording (DVD-Download) Revision 1.0". Since the Revision 1.0 Specification was updated to "DVD Specifications for Download Disc (DVD-Download) Part 1/2 Version 1.0" in September 2008, if the product only complies with the Revision 1.0, it is strongly recommended to change the product so as to comply with the Version 1.0 as soon as possible.

1.4 Requirements for the product

The following parameters are the basic requirements for the PC Video Format Authoring Software.

- (1) The Logo and Mark specified by Licensor (DVD FLIC) shall be marked on package, catalog, user display on screen and instruction manual. However, the Logo and Mark for this product shall not be used on the media that contains the software, such as CD-ROM disc and DVD-ROM disc, or on the DVD-R for General, DVD-R for DL, DVD-RW, DVD-Download and DVD-Download for DL discs to which Video contents are recorded using the product.
- (2) Scope of the target disc(s) covered (DVD-R for General and/or DVD-R for DL and/or DVD-RW and/or DVD-Download (Rev.1.0 and/or Ver.1.0) and/or DVD-Download for DL disc) must be clearly stated on product and packaging.
- (3) One or more supporting OS and DVD Drive shall be recommended in the catalog and/or instruction manual.
- (4) The DVD-Download system including PC Video Format Authoring Software supporting DVD-Download and/or DVD-Download for DL disc must have CSS encryption function.

2. DVD Logo

DVD Format/Logo Licensing Corporation owns the rights to license the DVD Logo. To be able to use the DVD Logo, DVD manufacturer must have:

- a. License to use the Logo and
- b. DVD Specification compliance of the product for logo consideration must be validated by the test specifications as defined in this document.

Licensing terms for the DVD Logo are available from the DVD Format/Logo Licensing Corporation.

This chapter describes the mechanism to be used for product compliance testing.

2.1 Definition of Terms Used

First Production Model- The **First Production Model** must be tested and approved by any of the appropriate Class-A Verification Labs (see definition of Class-A Labs below) for compliance with DVD Specifications. Class-A labs will use the test specifications described in this document for compliance verification.

The following parameters must be used to determine a **First Production Model**:

- DVD-Video Specifications Version n.x changing to n+1.x
- Initial or the latest production model at the start of Logo Program for each licensee

Next Production Model - A **Next Production Model** does not require compliance verification from a Class-A Verification Lab, but must be tested by licensee in its QA department for compliance with DVD Specifications. Licensee's QA department must have the test tools required to perform the tests specified in this document and must, at minimum, use the test procedure referred to in this document (licensee is free to have its own QA procedure, equipment and tools as long as it is a superset of the specification described in this document). A Licensee without its own QA department can get the product tested by a certified Third Party Class-B Verification Lab (see definition of Class-B Labs below).

The following parameters must be used to determine a **Next Production Model**:

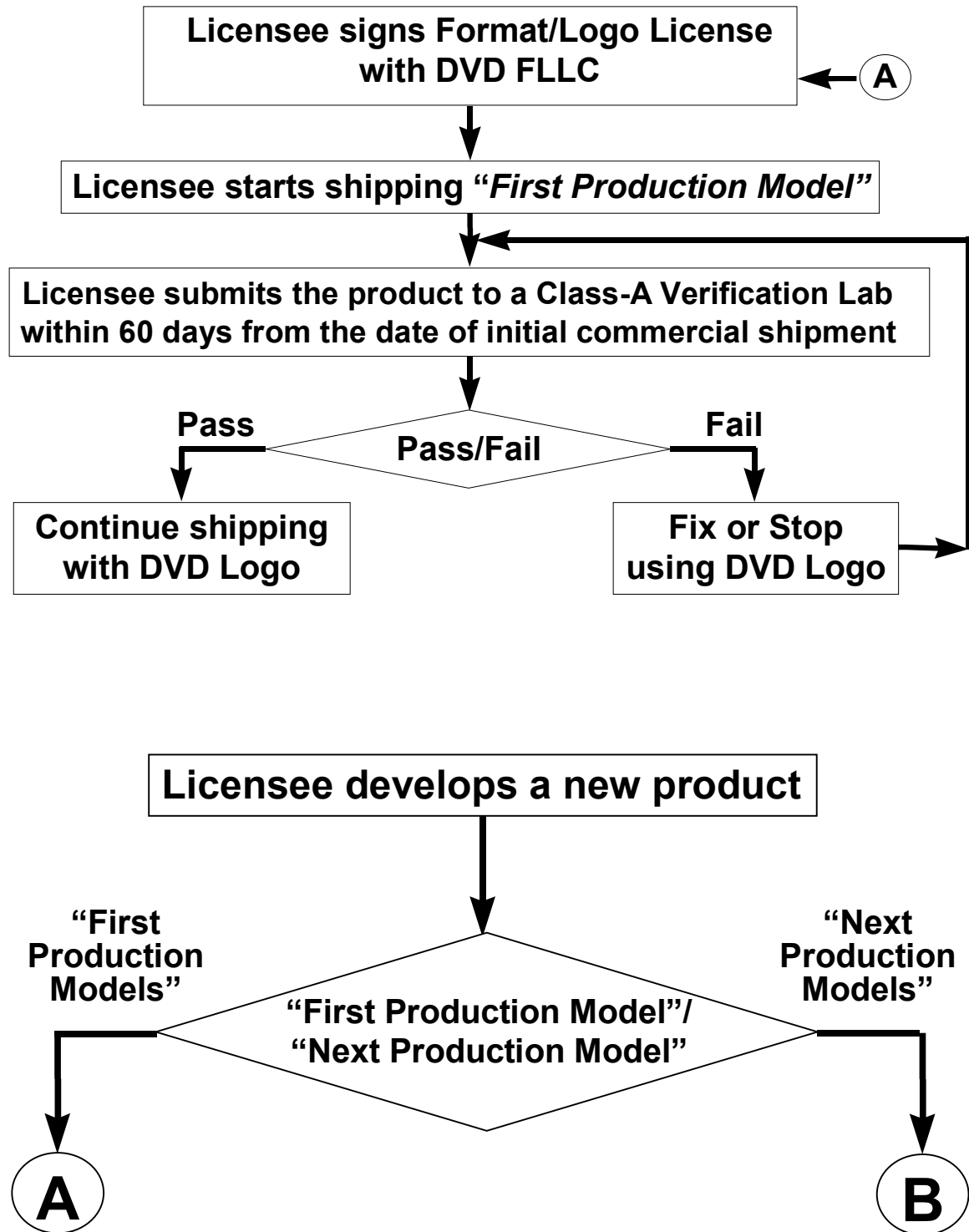
- DVD Specifications Version n.x changing to n.x+1
- Significant changes at Licensees discretion to support new OS, addition, reduction or change of applicable disc type (DVD-R for General disc, DVD-R for DL disc, DVD-RW disc, DVD-Download (Rev.1.0 and/or Ver.1.0) disc or DVD-Download for DL disc), additional functions and/or software related to DVD format. e.g. Version-up of the PC Video Format Authoring Software.

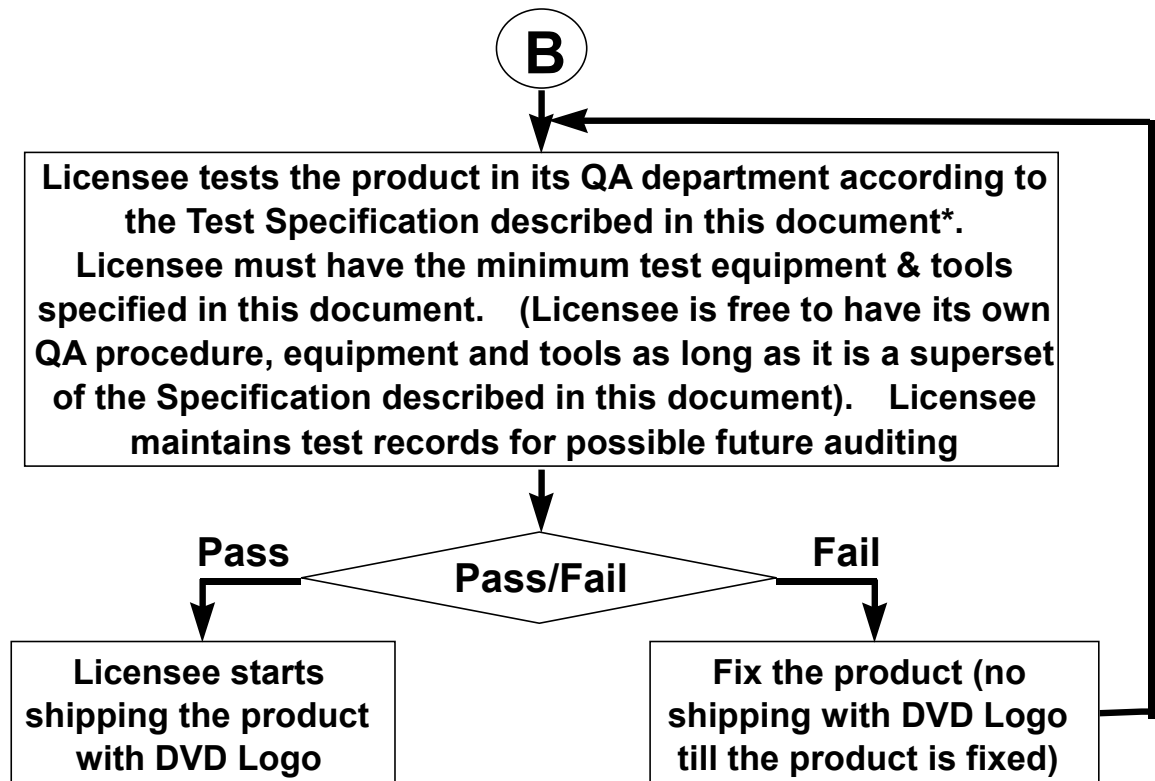
Class-A Verification Labs - Class-A Verification Labs are experts in DVD technology and provide independent expert assessment of Licensee's product compliance with DVD Specifications. Class-A labs also provide additional services such as interpretation of DVD Specifications, Test Tool development, Class-B Lab and Licensee auditing, etc.

Class-B Verification Labs - PC Video Format Authoring Software Class-B Verification Labs provide PC Video Format Authoring Software testing strictly according to the **PC Video Format Authoring Software Test Specification** (They can not interpret the specifications).

2.2 DVD Logo Mechanism

The DVD Logo mechanism is described in the following flow chart:





*: Licensee without own QA department can get the product tested by a **PC Video Format Authoring Software Class-B Verification Lab**.

3. Test Conditions

Target PC Video Format Authoring Software shall be tested under the following conditions. (Test System)

- (1) Target PC Video Format Authoring Software shall be installed in PC.
- (2) Target PC Video Format Authoring Software shall be operated on recommended OS.
- (3) Recommended DVD Drive shall be connected to PC in accordance with instruction manual.
- (4) Recommended download service shall be used. (Only for testing the PC Video Format Authoring Software supporting DVD-Download and/or DVD-Download for DL disc)

In the event that the target PC Video Format Authoring Software has a DVD-Video disc playback capability, it shall be treated as the DVD-Video player and shall satisfy the DVD-Video Player Test Specification.

4. Test Tools and Test Specifications

This chapter covers the test specifications and tool requirements for the physical and logical compliance testing.

4.1 Test Tools

The following tools are required to perform the tests specified and shall be available before executing the test procedures.

4.1.1 Test Discs

The following test discs are used for this verification activity. As for acquisition, refer to **Annex D**.

- 12cm 1x-speed DVD-R for General Standard Blank Test Disc: **Type 1 GRBTD-001** or
12cm 4x/1x-speed DVD-R for General Standard Blank Test Disc: **GRBTD-021** or
12cm 8x/1x-speed DVD-R for General Standard Blank Test Disc: **GRBTD-031** or
12cm 16x/1x-speed DVD-R for General Standard Blank Test Disc: **GRBTD-041** or Equivalent DVD-R for General disc and/or
- 12cm 4x/2x-speed DVD-R for DL Standard Blank Test Disc: **GRBTD-001-DL** or
12cm 8x/2x-speed DVD-R for DL Standard Blank Test Disc: **GRBTD-011-DL** or
12cm 12x/2x-speed DVD-R for DL Standard Blank Test Disc: **DHRR85TT1SP** or Equivalent DVD-R for DL disc and/or
- 12cm 1x-speed DVD-RW Standard Blank Test Disc: **RWBTD-011** or
12cm 4x/2x-speed Class 1 DVD-RW Standard Blank Test Disc: **RWBTD-031** or
12cm 6x/2x-speed Class 1 DVD-RW Standard Blank Test Disc: **RWBTD-041** or Equivalent DVD-RW disc and/or
- 12cm 8x/2x-speed DVD-Download Standard Blank Test Disc with pre-recorded Lead-in based on Book Rev.1.0: **CSS-E47JG0** and/or
12cm 8x/2x-speed DVD-Download Standard Blank Test Disc with pre-recorded Control data zone based on Book Ver.1.0: **CSS-E47JA0** or Equivalent DVD-Download disc and/or
- 12cm 8x/2x-speed DVD-Download for DL Standard Blank Test Disc with pre-recorded Control data zone: **CSS-E85LA0** or Equivalent DVD-Download for DL disc

4.1.2 Verifiers

To be able to check the discs recorded by the Test System, the following verifiers are recommended.

As for acquisition, refer to **Annex D**.

Regarding verifiers, other equivalent tools can also be used.

DVD Video Verifier is:

- DVD Audio/Video Verifier (**DVD-AV02 Ver. 1.2**)

File System Verifier is:

- DVD File System Verifier (**TFSV03**) or
- DVD File System Verifier (**DVD-FV20AV**)

ADP_TY & ADP_ID Verifier is:

- ADP_TY & ID Verifier (**ADPV-001**)

MPEG stream verification tool is:

- DVD Video Verifier (**Philips verifier**)

4.2 Test Specifications

The following sections describe the test procedures required for verification of the DVD products specified in 1.3.

4.2.1 Recording capability for DVD-R for General and/or DVD-R for DL disc

- Nominate the "Operation Nomination" in **Form 3EE** and record arbitrary contents on a DVD-R (for General and/or DL) Standard Blank Test Disc or equivalent DVD-R (for General and/or DL) disc and finalize the disc. And then, playback the presentation data and navigation data. Finally, check the recorded disc using the DVD Video Verifier and the File System Verifier at some items in accordance with **Form 3EE**.
- When the function corresponding to the Check Item is not supported by the Test System, i.e. "Operation Nomination" is described with hyphen '-', the Check Item can be skipped.
- If the Test System has any operations regarding recording other than the nominated Check Items in **Form 3EE**, nominate "Check Items" and "Operation Nomination" for the operation in blank rows (No. 17 to 24) in **Form 3EE**. Then, execute the operations on the recorded disc and playback the presentation data and navigation data and check the recorded disc using the DVD Video Verifier and the File System Verifier at some items, which are nominated, in accordance with **Form 3EE**.

Note 1: All operations regarding recording shall be nominated by the applicant. If blank rows to nominate the operations are insufficient, blank rows shall be made and nominated.

Note 2: All Check Items are basically optional functions, but it should be done as much as the Test System supports the corresponding function.

Note 3: The nominated Check Items are judged from the results based on the DVD Video Verifier. Therefore, after verified, the judgment is written in **Form 3EE**.

Note 4: If the DVD Video Verifier put out message of incompatibility besides the nominated "Operation Nomination", the applicable function shall be nominated in **Form 3EE**.

Note 5: If the product supports both DVD-R for General and DVD-R for DL disc, Items No. 1 to 14 of **Form 3EE** are checked by DVD-R for General, and Items No. 15 and 16 are checked by DVD-R for DL.

4.2.2 ADP_TY and ADP_ID check for DVD-R for General and/or DVD-R for DL disc

The recorded disc(s) described in 4.2.1 shall be used for the check of ADP_TY and ADP_ID.

- Check the ADP_TY in CPR_MAI in Data area using the ADP_TY & ID Verifier in accordance with **Form 4EE**.
- Check the ADP_ID in VMGI_MAT and VOBU_ADP_ID in every DSI_GI using the ADP_TY & ID Verifier in accordance with **Form 4EE**.

4.2.3 Recording capability for DVD-RW disc

- Nominate the "Operation Nomination" in **Form 5EE** and record arbitrary contents on a DVD-RW Standard Blank Test Disc or equivalent DVD-RW disc and finalize the disc. And then, play back the presentation data and navigation data. Finally, check the recorded disc using the DVD Video Verifier and the File System Verifier at some items in accordance with **Form 5EE**.
- When the function corresponding to the Check item is not supported by the Test System, i.e. "Operation Nomination" is described with hyphen '-', the Check item can be skipped.
- If the Test System has any operations regarding recording other than the nominated Check Items in **Form 5EE**, nominate "Check Items", and "Operation Nomination" for the operation in blank rows (No. 15 to 24) in **Form 5EE**. Then, execute the operations on the recorded disc and playback the presentation data and navigation data and check the recorded disc using the DVD Video Verifier and the File System Verifier at some items, which are nominated, in accordance with **Form 5EE**.

Note 1: All operations regarding recording shall be nominated by the applicant. If blank rows to nominate the operations are insufficient, blank rows shall be made and nominated.

Note 2: All Check Items are basically optional functions, but it should be done as much as the Test System supports the corresponding function.

Note 3: The nominated Check Items are judged from the results based on DVD Video Verifier. Therefore, after verified, the judgment is written on **Form 5EE**.

Note 4: If the DVD Video Verifier put out message of incompatibility besides the nominated "Operation Nomination", the applicable function shall be nominated in **Form 5EE**.

4.2.4 ADP_TY and ADP_ID check for DVD-RW disc

The recorded disc described in 4.2.3 shall be used for the check of ADP_TY and ADP_ID.

- Check the ADP_TY in CPR_MAI in Data area using the ADP_TY & ID Verifier in accordance with **Form 6EE**.
- Check the ADP_ID in VMGI_MAT and VOBU_AD_P_ID in every DSI_GI using ADP_TY & ID Verifier in accordance with **Form 6EE**.

4.2.5 Recording capability for DVD-Download and/or DVD-Download for DL disc

- Nominate the "Operation Nomination" in **Form 7EE** and record arbitrary contents on a DVD-Download (for SL (Rev.1.0 and/or Ver.1.0) and/or DL) Standard Blank Test Disc or equivalent DVD-Download (for SL (Rev.1.0 and/or Ver.1.0) and/or DL) disc and finalize the disc. And then, playback the presentation data and navigation data. Furthermore, the video format content which is available to be checked with Verifiers shall be made by the applicant. Finally, check the DVD-Download (for SL (Rev.1.0 and/or Ver.1.0) and/or DL) disc using the File System Verifier and the video format content using the DVD Video Verifier at some items in accordance with **Form 7EE**.
- When the function corresponding to the Check item is not supported by the Test System, i.e. "Operation Nomination" is described with hyphen '-', the Check item can be skipped.
- If the Test System has any operations regarding recording other than the nominated Check Items in **Form 7EE**, nominate "Check Items", and "Operation Nomination" for the operation in blank rows (No. 17 to 24) in **Form 7EE**. Then, execute the operations on a DVD-Download (for SL (Rev.1.0 and/or Ver.1.0) and/or DL) disc and playback the presentation data and navigation data. Furthermore, the video format content which is available to be checked with Verifiers shall be made by the applicant. Finally, check the DVD-Download (for SL (Rev.1.0 and/or Ver.1.0) and/or DL) disc using the File System Verifier and the video format content using the DVD Video Verifier and at some items, which are nominated, in accordance with **Form 7EE**.

Note 1: All operations regarding recording shall be nominated by the applicant. If blank rows to nominate the operations are insufficient, blank rows shall be made and nominated.

Note 2: All Check Items are basically optional functions, but it should be done as much as the Test System supports the corresponding function.

Note 3: The nominated Check Items are judged from the results based on DVD Video Verifier. Therefore, after verified, the judgment is written on **Form 7EE**.

Note 4: If the DVD Video Verifier put out message of incompatibility besides the nominated "Operation Nomination", the applicable function shall be nominated in **Form 7EE**.

Note 5: If the product supports both DVD-Download Rev.1.0 and Ver.1.0 disc, the applicant may submit only one type of them and the content for it, and Class-A Labs check the disc and the content.

If the applicant submits test results for both Rev.1.0 and Ver.1.0, Items No. 1 to 14 of **Form 7EE** may be used for one type of them, and blank rows (No. 17 to 24) may be used to describe results for the other type.

Note 6: If the product supports both DVD-Download (Rev.1.0 and/or Ver.1.0) and DVD-Download for DL disc, Items No. 1 to 14 of **Form 7EE** are checked by DVD-Download (Rev.1.0 and/or Ver.1.0), and Items No. 15 and 16 are checked by DVD-Download for DL.

4.2.6 MPEG stream verification (Option)

The recorded disc described in 4.2.1, 4.2.3 or 4.2.5 shall be used for the check of MPEG stream verification using Philips Verifier or equivalent tool in accordance with **Form 8EE**.

Note: This MPEG stream verification shall be treated as optional verification. It shall be conducted in the event that applicant declares the Authoring software be tested about MPEG stream.

Annex A

List of Class-A Verification Labs

This List is correct at the time of publication. However, when the Class-A Lab information contained here differs from such information cited in our website www.dvdfllc.co.jp, the List with more current date prevails. Also, please refer to the website for the latest Verification Service of each Class-A Lab.

(PC Video Format Authoring Software for DVD-R for General, DVD-R for DL, DVD-RW, DVD-Download and DVD-Download for DL discs)

PIONEER CORPORATION

Verification Laboratory

1-1 Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa, 212-0031 Japan

Fax: +81-44-580-4027

(PC Video Format Authoring Software for DVD-R for General, DVD-R for DL and DVD-RW discs)

Panasonic Corporation

Format Verification Laboratory

1-15, Matsuo-cho, Kadoma, Osaka, 571-8504 Japan

Fax: +81-6-6909-5027

E-mail: fvl-info@ml.jp.panasonic.com URL: <http://panasonic.co.jp/avc/fvl/en/index.html>

This page is intentionally left blank.

Annex B

Glossary of Terms used

(May be defined in future.)

Annex C

Procedure for Class-A Verification Lab Product Submission

The procedure for submitting a product to a Class-A Verification Lab is as follows:

Preliminary Application

Applicant must complete **Form 1EE** to provide preliminary information.

Self Test

Applicant must test the product in accordance with this Test Specification prior to submitting samples to a Class-A Verification Lab. Applicant must complete **Form 2EE**, and **necessary Forms*** to provide test results.

*Note:

Table C-1 shows the relation between "Supporting disc" and "Forms No. to be submitted".

Table C-1 : Supported disc and Forms to be submitted

Supported disc		Forms No. to be submitted					
		3EE	4EE	5EE	6EE	7EE	8EE (Option)
A	DVD-R for General and/or DVD-R for DL disc	✓	✓				✓
B	DVD-RW disc			✓	✓		✓
C	DVD-Download and/or DVD-Download for DL disc					✓	✓

Mutual Non-Disclosure Agreement (NDA)

Applicant, in order to maintain the confidentiality of the applicant product and Verification Lab's information, must sign a Mutual Non-Disclosure Agreement.

Application

Applicant must submit the sample of PC Video Format Authoring software, the recorded disc which covers **Form 3EE and/or 5EE and/or 7EE****, software feature map, disc structure map, instruction manual, and PC system (when Class-A lab requires applicant to submit) along with said necessary Forms and the NDA.

******: In case of **Form 7EE**, DVD-Download (Rev.1.0 and/or Ver.1.0) and/or DVD-Download for DL discs and the video format content which is available to be checked with Verifiers shall be submitted by the applicant.

Test Result

Upon completion of testing, Verification Lab will complete **Form 9EE** to inform the applicant and DVD Format/Logo Licensing Corporation of the test results.

Annex D

Test Tool Contact Information

The Contact Information is correct at the time of publication. However, when the Class-A Lab information (marked <*>) differs from such information cited in our website www.dvdfllc.co.jp, the List with more current date prevails.

Test Discs

<ul style="list-style-type: none"> 12cm DVD-R for General Standard Blank Test Disc 	PIONEER CORPORATION<*> Verification Laboratory 1-1 Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa, 212-0031 Japan Fax: +81-44-580-4027
1x-speed Type 1; GRBTD-001	
4x/1x-speed GRBTD-021	
8x/1x-speed GRBTD-031	
16x/1x-speed GRBTD-041	
<ul style="list-style-type: none"> 12cm DVD-R for DL Standard Blank Test Disc 	PIONEER CORPORATION<*>
4x/2x-speed GRBTD-001-DL	
8x/2x-speed GRBTD-011-DL	
12x/2x-speed DHRR85T1SP	MITSUBISHI KAGAKU MEDIA Co., LTD. Global Sales Support Dept. 31-19, Shiba 5-chome, Minato-ku, Tokyo 108-8415 Japan Fax:+81-3-5484-3906
<ul style="list-style-type: none"> 12cm DVD-RW Standard Blank Test Disc 	PIONEER CORPORATION<*>
1x-speed RWBTD-011	
4x/2x-speed Class 1 RWBTD-031	
6x/2x-speed Class 1 RWBTD-041	
<ul style="list-style-type: none"> 12cm 8x/2x-speed DVD-Download Standard Blank Test Disc with pre-recorded Lead-in based on Book Rev.1.0 	TAIYO YUDEN CO., LTD. Recording Media Marketing Department Recording Media Product Division Matsumura Bldg. 6-16-20, Ueno, Taito-ku, Tokyo, 110-0005 Japan Tel: +81-3-3837-6536 Fax: +81-3-3837-6555
<ul style="list-style-type: none"> 12cm 8x/2x-speed DVD-Download Standard Blank Test Disc with pre-recorded Control data zone based on Book Ver.1.0 	
CSS-E47JG0	
<ul style="list-style-type: none"> 12cm 8x/2x-speed DVD-Download for DL Standard Blank Test Disc with pre-recorded Control data zone 	
CSS-E47JA0	
	CSS-E85LA0

(Continued)

Verifiers

<ul style="list-style-type: none"> ADP_TY & ID Verifier 	ADPV-001	PIONEER CORPORATION<*>
<ul style="list-style-type: none"> Audio/Video Verifier 	DVD-AV02 Ver. 1.2	Panasonic Corporation<*> Format Verification Laboratory 1-15, Matsuo-cho, Kadoma, Osaka, 571-8504 Japan Fax: +81-6-6909-5027 E-mail: fvl-info@ml.jp.panasonic.com URL: http://panasonic.co.jp/avc/fvl/en/index.html
<ul style="list-style-type: none"> DVD File System Verifier 	DVD-FV20AV	
	TFSV03	<i>Discontinued</i>
<ul style="list-style-type: none"> DVD Video Verifier (for MPEG stream Test) 	Philips Verifier	Royal Philips Electronics Philips Intellectual Property & Standards Business Support High Tech Campus 44, 5656 AE Eindhoven, The Netherlands Fax: +31-40-2732113 E-mail: info.licensing@philips.com URL: http://www.ip.philips.com/licensing

This page is intentionally left blank.