

Schedule F

Regional Playback Control Obligations

1. Subject to the following sentence and to Paragraph 7. below, Licensee shall ensure that each of its BD-ROM Movie Players, when shipped by the manufacturer thereof, and each instance of its BD-ROM PC Application Software, prior to the use of such BD-ROM PC Application Software to play back any BD-ROM (Hybrid) Movie Media: (a) is designated for only one of the regions set forth in the BD-ROM Format Specifications Part 3, and (b) implements regional playback control information in accordance with the BD-ROM Format Specifications Part 3, in a manner that complies with the robustness requirements set forth in Paragraph 8. below. Notwithstanding anything in the foregoing sentence to the contrary, if one of Licensee's BD-ROM Movie Players is shipped by the manufacturer thereof to a third party manufacturer for integration into another product, Licensee shall obtain said third party's commitment that, when the product into which such BD-ROM Movie Player is integrated is shipped by such third party manufacturer, it complies with the foregoing requirements. For purposes of this Schedule F, BD-ROM Movie Players and BD-ROM PC Application Software shall be referred to collectively as "**Movie Media Playback Devices**".

2. Subject to Paragraph 7. below, Licensee shall ensure that each of its Movie Media Playback Devices that is designated for a region other than the one(s) for which playback is permitted by BD-ROM (Hybrid) Movie Media that contains a "**BD-ROM HDMV application**" or a "**BD-ROM BD-J application**" (as such terms are defined in the BD-ROM Format Specifications Part 3) that includes an instruction to stop playback of such media in playback devices designated for any geographical region outside the region(s) for which playback is permitted by such applications (such BD-ROM (Hybrid) Movie Media being referred to hereafter as "**Region Coded Media**"), accepts a properly coded instruction from the applicable BD-ROM HDMV application or BD-ROM BD-J application not to play back such Region Coded Media and responds to such instruction by stopping playback.

3. Subject to Paragraph 7. below, notwithstanding anything in the foregoing to the contrary, Licensee's BD-ROM PC Application Software (and/or the operating system of the computer in which such BD-ROM PC Application Software is installed) may allow an end user of such software to directly reset such software's designated region code a maximum of five times, provided that:

a. the resetting mechanism is implemented in a manner that complies with the robustness requirements set forth in Paragraph 8. below;

b. all duplicate copies and subsequent versions of Licensee's BD-ROM PC Application Software that are simultaneously installed under a particular operating system instance in the same computer, maintain the same region number and reset limit across all such duplicate copies; and

c. all duplicate copies and subsequent versions of Licensee's BD-ROM PC Application Software that are installed, uninstalled and reinstalled under a particular operating system instance in the same computer, maintain the same region number and reset limit across each installation.

4. Subject to Paragraph 7. below, Licensee shall use commercially reasonable efforts to disclose to all wholesale and retail purchasers of its BD-ROM Movie Players that such devices comply with these RPC Obligations, through appropriate means including by: (i) displaying the applicable BD region designation on its Movie Media Playback Devices (e.g., on a rear panel of a BD-ROM Movie Player) and prominently displaying the applicable BD region designation on associated packaging (boxes, cases and containers), promotional materials, user manuals and catalogues; and (ii) incorporating in the above, to the extent commercially reasonable, all recommended region designation typefaces and associated logos and other informative materials that may be developed by the BDA from time to time.

5. Subject to Paragraph 7. below, Licensee shall use commercially reasonable efforts to disclose to all end users of its BD-ROM PC Application Software that such software complies with these RPC Obligations, through all appropriate means including by: incorporating, to the extent commercially reasonable, all recommended region designation typefaces and associated logos and other informative materials that may be developed by the BDA from time to time.

6. Notwithstanding anything in this Schedule F to the contrary, in no event shall Licensee manufacture Region Coded Media unless the owner or licensee of the Commercial Audiovisual Content incorporated in such Region Coded Media has entered into a Content Participant Agreement that includes Article 13.1 (RPC Encoding Rules), provided that such restriction shall not apply to Region Coded Media included within the definition of BD-ROM Tester.

7. Notwithstanding anything in this Schedule F to the contrary, Licensee may sell, offer to sell, distribute or otherwise transfer Movie Media Playback Devices that are not Compliant with one or more of the foregoing RPC Obligations in any jurisdiction in which fulfillment of the applicable obligation(s) has been ruled unlawful in unappealable judicial proceedings or in officially promulgated laws, executive orders or administrative regulations applicable in such jurisdiction.

8. Movie Media Playback Device Robustness.

8.1. Construction - Generally. Movie Media Playback Devices and BD-ROM Components shall be manufactured in a manner clearly designed to effectively frustrate attempts to modify such devices or the performance of such devices to defeat the RPC Obligations in accordance with the obligations specified in this Paragraph 8.

8.2 Construction – Defeating Functions. Movie Media Playback Devices and BD-ROM Components shall not include:

- (i) switches, buttons, jumpers or software equivalents thereof;
- (ii) specific traces (electrical connections) that can be cut; or
- (iii) functions (including service menus and remote-control functions),

in each case by which the RPC Obligations can be defeated.

8.3 Methods of Making Functions Robust – BD-ROM PC Application Software. At all times, BD-ROM PC Application Software shall be manufactured using at least the following techniques in a manner that is clearly designed to effectively frustrate attempts to defeat the requirements set forth below.

8.3.1 Any portion of BD-ROM PC Application Software that implements any of the RPC Obligations in Software shall include all of the characteristics set forth in Paragraphs 8.1 and, as applicable, 8.2 above. For purposes of this Paragraph 8, “**Software**” shall mean the implementation of RPC Obligations through any computer program code consisting of instructions or data, other than such instructions or data that are included in Hardware. Such implementations shall:

8.3.1.1 Use techniques of obfuscation clearly designed to effectively disguise and hamper attempts to discover the approaches used; and

8.3.1.2 Be designed so as to perform or ensure checking of the integrity of its component parts such that unauthorized modifications will be expected to result in a failure of the implementation. For purposes of this Paragraph 8.3.1.2, a “**modification**” includes any change in, or disturbance or invasion of, features or characteristics, or interruption of processing, relevant to Articles 8.1 or 8.2 above. This provision requires, at a minimum, the use of “signed code” or more robust means of “tagging” operating throughout the code. For purposes of this Paragraph 8.3.1.2, “**signed code**” means a method of achieving trusted distribution of Software by using public key cryptography, keyed hash, or other means at least as effective, to form a digital signature over Software such that its authenticity and integrity can be verified.

8.4 Methods of Making Functions Robust – BD-ROM Movie Players. BD-ROM Movie Players shall be manufactured using at least the following techniques in a manner that is clearly designed to effectively frustrate attempts to defeat the requirements set forth below.

8.4.1 Software. Any portion of a BD-ROM Movie Player that implements any of the RPC Obligations in Software shall include all of the characteristics set forth in Paragraphs 8.1 and 8.2 above. Such

implementations shall be designed not to introduce an end user accessible software interface that could be used to tamper with region playback control information.

8.4.2 Hardware. Any portion of a BD-ROM Movie Player that implements any of the RPC Obligations in Hardware shall include all of the characteristics set forth in Paragraphs 8.1 and 8.2 above. For purposes of this Paragraph 8, “**Hardware**” shall mean a physical device or component that implements RPC Obligations and that (i) does not include instructions or data other than such instructions or data that are permanently embedded in such device or component; or (ii) includes instructions or data, e.g., firmware instructions or data that are not permanently embedded in such device or component where such instructions or data are specific to such BD-ROM Movie Player.

8.4.3 Hybrid. The interfaces between Hardware and Software portions of a BD-ROM Movie Player shall be designed so that the Hardware portions comply with the level of protection that would be provided by a pure Hardware implementation, and the Software portions comply with the level of protection that would be provided by a pure Software implementation.

8.5 Notice to Licensee. Licensee hereby acknowledges and agrees that, subject to Article 10 of the Agreement, Licensor may amend Paragraph 8.4 above to add, delete or otherwise change the robustness requirements it imposes on BD-ROM Movie Players.