

Via E-mail and Overnight Mail



RE: IP Disclosure Certificate for OpenWF

Dear Ms. Riegel and Mr. Wilson,

Apple hereby submits this IP Disclosure Certificate for the *OpenWF Composition Specification Version 1.0 RC1* and *OpenWF Display Specification Version 1.0 RC1*, herein referred to as the "Pending OpenWF Specification." Apple does not participate in the OpenWF Working Group and submitted a Working Group Exclusion Certificate for OpenWF on April 15, 2008 (see Appendix A). Apple hereby reiterates this exclusion, notifying Khronos Group Inc., the Managing Director of Khronos, Khronos Members, and subsequent Adopters that Apple will not grant a Reciprocal License for any Specifications produced by the OpenWF Working Group.

Apple owns the patents and patent applications (hereinafter "patent documents") identified in TABLE 1. Apple believes these patent documents pertain to the Pending OpenWF Specification. To the extent that these patent documents include Necessary Patent Claims, Apple does not agree to grant a Reciprocal License to such Necessary Patent Claims for the Pending OpenWF Specification or any subsequent version. This also applies to any continuations, divisionals, continuation-in-parts, priority patent documents, and foreign counterparts (including without limitation those listed in Appendix B) that include Necessary Patent Claims.

Patent or Publication No.	Title	Exemplary Section(s) in the Pending OpenWF Specification
US5,276,531	Method and Apparatus for High Definition Imaging	At least in OpenWF Composition Specification: 2.4, 2.6, 2.8, 3, 5.1, 6, 6.1, 6.2, 7, and 7.1; and in OpenWF Display Specification: 2.6, 3, 5, 5.1, 5.5, 5.6, 5.7, and 5.8
US5,270,837	Method and Apparatus for Enabling Intelligent Post-Processing of Differing Data Types	At least in OpenWF Composition Specification: 2.4, 2.6, 2.8, 3, 5.1, 6, 6.1, 6.2, 7, and 7.1; and in OpenWF Display Specification: 2.6, 3, 5, 5.1, 5.5, 5.6, 5.7, and 5.8
US5,379,129	Method for Compositing a Source and Destination Image using a Mask Image	At least in OpenWF Composition Specification: 2.4, 2.6, 2.8, 3, 6, 6.2, 7, and 7.1; and in OpenWF Display Specification: 2.6, 3, 3.6, 5, 5.1, 5.5, 5.6, 5.7, and 5.8
US5,404,447	Apparatus for Manipulating Image Pixel Streams to Generate an Output Image Pixel Stream in Response to a Selected Mode	At least in OpenWF Composition Specification: 1.4, 2.4, 2.6, 2.8, 3, 5.1, 6, 6.1, 6.2, 7, and 7.1; and in OpenWF Display Specification: 1.4, 2.6, 3, 5, 5.1, 5.5, 5.6, 5.7, and 5.8
US6,809,735	Virtualization of Graphics Resources	Throughout the Pending OpenWF Specification, including in OpenWF Composition Specification: 1.5, 2.6, 2.8, 2.13, 4, 4.3, 5, 5.2, 5.3, 5.4, 6, 6.1, 6.2, 7, 7.2, 8, 8.3, and 9; and in OpenWF Display Specification: 1.5, 2.6, 2.8, 2.13, 3, 3.2, 3.4, 3.6, 4, 4.2, 4.6, 5.3, 5.5, 5.6, 5.7, and 8.2
US6,809,736	Virtualization of Graphics Resources	Throughout the Pending OpenWF Specification, including in OpenWF Composition Specification: 1.5, 2.6, 2.8, 2.13, 4, 4.3, 5, 5.2, 5.3, 5.4, 6, 6.1, 6.2, 7, 7.2, 8, 8.3, and 9; and in OpenWF Display Specification: 1.5, 2.6, 2.8, 2.13, 3, 3.2, 3.4, 3.6, 4, 4.2, 4.6, 5.3, 5.5, 5.6, 5.7, and 8.2
US2007-0103477	Method and Apparatus for Frame Buffer Management	Throughout the Pending OpenWF Specification, including in OpenWF Composition Specification: 2.8, 3, 5, 5.1, 5.2, 5.3, 5.4, 6, 6.1, 6.2, 7, and 7.2; and in OpenWF Display Specification: 2.8, 3,

		3.4, 5, 5.3, 5.5, and 5.6
US2008-0030504 EP2047432	Framework for Graphics Animation and Compositing Operations	At least in OpenWF Composition Specification: 2.8, 2.13, 3, 4, 4.3, 5, 5.2, 5.3, 5.4, 6, 6.1, 6.2, 7, 7.1, 7.2, 8, 8.3, and 9; and in OpenWF Display Specification: 2.6, 2.8, 2.13, 3, 3.2, 3.4, 3.6, 4, 4.2, 4.6, 5, 5.3, 5.5, 5.6, 5.7, 5.8, and 8.2
US2005-0231502 EP1775681 EP1775680 HK1102640 HK1102639 JP2007533026	High-level Program Interface for Graphics Operations	At least in OpenWF Composition Specification: 2.4, 2.6, 2.8, 3, 4, 4.3, 5, 5.1, 5.2, 5.3, 5.4, 6, 6.1, 6.2, 7, 7.1, 7.2, 8, 8.1, and 8.3; and in OpenWF Display Specification: 2.6, 2.8, 3, 3.2, 3.4, 4, 4.2, 4.6, 5, 5.3, 5.5, 5.6, 5.7, and 5.8

TABLE 1.

The patent applications identified in TABLE 2 (as well as any continuations, divisionals, continuation-in-parts, priority patent documents, and foreign counterparts thereof, including without limitation those listed in Appendix C) may be relevant to the Pending OpenWF Specification.

Exemplary Publication No.	Title
US2005-0231514	System for Optimizing Graphics Operations
US2006-0152518	Virtualization of Graphics Resources
US2008-0030520	Deep Pixel Pipeline

TABLE 2.

Apple in no way warrants that the patent documents identified herein are exhaustive of Apple patents and patent applications that may be essential or relevant to the Pending OpenWF Specification. To the extent that Apple owns patents and patent applications now or in the future that include Necessary Patent Claims, Apple does not agree to grant a Reciprocal License to such Necessary Patent Claims for the Pending OpenWF Specification or any subsequent version. Apple also continues to exclude patent documents under the Working Group Exclusion Certificate submitted on April 15, 2008. Apple hereby reiterates this exclusion, notifying Khronos Group Inc., the Managing Director of Khronos, Khronos Members, and subsequent Adopters that Apple will not grant a Reciprocal License for any Specifications produced by the OpenWF Working Group.

Any questions regarding this communication should be directed to:

[Blurred text block containing contact information, possibly including a name, title, and phone number]