Michael A. Rolenz 18 February 2003 "Exemption to Prohibition on Circumvention of Copyright Protection Systems for Access Control Technologies"

Reply comments in support and amplification to Comment #23 of Don R. Hansen

2. Descriptive Name Class : Data file formats, including but not limited to word processing-, image- and music file types.

Summary:

The purpose of copyright is the promotion of progress. To promote progress, works are given copyright protection so that they might be disseminated now and preserved for future use. Access controls are antipodal to that goal since they can restrict dissemination today and can eliminate preservation in the future. In particular how can works be preserved and archived when distributed with access controls that cannot be circumvented because it is not feasible or economically viable?

Facts and evidence:

It is mathematically demonstrable that without knowledge of file formats that works stored in that file format approach cryptographic complexities and can become inaccessible without a complete definition of the file format, contents, and processing algorithms. This has been the situation until 1998. Works that have access controls that include encryption are even more so. Works with strong encryption may take decades of time to break and can provide a de-facto monopoly. Reverse engineering is not economically viable at best and demonstrably impossible at worst.

Argument:

See Reply comments submitted by Michael A. Rolenz in support and amplification to Comment #24 of Christopher Lewis for a discussion on file format.

The purpose of copyright is the promotion of progress. To promote progress, works are given copyright protection so that they might be given a broad dissemination now and as such can be preserved for future use through any surviving copies in libraries either public or private. Access controls are antipodal to that goal since they can restrict dissemination today and can eliminate preservation in the future simply because either file formats are unknown, or encrypted which makes or just too difficult to be economically viable to perform the reverse engineering. Comment #23 raises an interesting question-do proprietary, licensed, or unknown file formats written and accessed by copyrighted software qualify as access controls under the DMCA? If not,

then they are not subject to the DMCA. If so, then there are several solutions. One is to not allow works that have access controls to enjoy copyright protection. A less radical solution would be to require any work that is to have copyright protection and subject to the DMCA make a full disclosure of all aspects of the file format sufficient for future access. That information should be made available to the public in the event that the file format is no longer supported or after a reasonably short period so that there would still be an economic incentive for the creation of conversion utilities in (given the evolution of software, no more than 5-10 years would be adequate).