

Liaison Report to CIE/D8 from the ICC

T. Kohler - 7 April 2000.

Introduction

The ICC is a de Facto standards organization dedicated to developing color management standards. The ICC profile format is used worldwide to communicate the characteristics of a color device. The ICC is made up of corporations who pay a membership fee to join.

Current Activities

The current activities of the ICC can be broken down into two categories: Refining and improving the current system, and developing a next-generation system.

Interoperability Working Group-

The interoperability working group's charter is to "fix" ambiguities and errors in the current profile specification if it can be done with a minimum of impact to the existing product lines. This work is ongoing and a new release of the ICC specification is expected in November. Issues related to the CIE are the choice of chromatic adaptation model and the use of CIELab and XYZ as a profile connection space.

Research Implementation Working Group (formally Reference Implementation Working Group)

The RIWG's charter is to build the next generation of color management system, based on the ICC profile format. The RIWG has been working for more than two years to develop an new system that includes a baseline color workflow as well as flexibility for proprietary use. The RIWG will also build a source code implementation of the proposed architecture for testing, proof-of-concept, and eventually, compliance testing. The RIWG makes use of the CIECAM97s color appearance model. The RIWG also intends to make use of the results of CIE TC8-03 for a baseline gamut mapping algorithm. The RIWG released a version of the source code on March 17, 2000, and is currently awaiting comments and bug reports.

Some members of TC8-03 and TC8-04 are using the RIWG source code for gamut mapping testing and testing of color adaptation under mixed illuminants.