

Automatic color conversions for more efficient workflows

Your advantages at a glance

▼ *CMYK-to-CMYK conversion*

One of the outstanding functions of GMG ColorServer is its fully automatic CMYK color conversion. This is used to convert CMYK data from one standard – industry standards, such as GRACoL, PSR, ISO, and 3DAP, or in-house standards – to another industry or in-house standard and allows incoming image data that were received from different sources to be “normalized” to a single, uniform standard. Similarly outgoing data can be optimized for multiple output processes, respective of the specific printing process or condition.

▼ *Reseparation of CMYK data*

Besides color conversion GMG ColorServer offers the possibility to reparate the entire document. With the reparation of image and vector objects in CMYK documents it is ensured that the printed results are separated homogeneously and consistently and thus offer better print results.

▼ *4D color management ensures identical printing results*

GMG ColorServer was developed by GMG in collaboration with leading printing companies and publishers and is based on GMG's 4D color management. The software computes the original and target values directly into CMYK

– without the detour via a LAB color space. This way the integrity of the black channel in the original data is retained in its exact proportions in the transformed, target CMYK color space, ensuring that the visual impression of the output remains identical. An ICC device profile approach cannot lead to the desired result considering that the color space conversion used by the CIE Lab is three-dimensional and lacks information about the black channel generation (fourth color) required for accurate color conversions.

▼ *RGB-to-CMYK conversion*

RGB files are often delivered unprepared for printing. The RGB files are placed in a hot folder and processed according to the parameters defined for this hot folder e.g. scaled, sharpened and separated. The GMG separations are much smoother compared to those made with ICC profiles leading to less problems during printing. The separations generated by GMG are far more accurate than the ones produced using ICC, with less problems during the printing process.

▼ *RGB-to-RGB conversion*

RGB files may be converted within different standard RGB color spaces like AdobeRGB, ECI-RGB or sRGB. This is particularly useful in standardizing RGB data in prepress and as well web and display-based applications.

▼ PDF-to-PDF conversion

In addition to the handling of pixel data, it is also possible to manipulate PDF files for both CMYK-to-CMYK and RGB-to-CMYK conversions. When converting PDF files, the RGB images within the PDF file can be automatically scaled, sharpened and separated. It is not necessary to revert to image and layout applications during the document creation process.

▼ Cost savings through accelerated work processes

The extended hot folder technology allows to automatically detect embedded profiles and conversion with the respective GMG profiles resulting in large and continual cost savings.

▼ Standard and individual profiles

Working with standard profiles gives the possibility to start immediately the production, using reference profiles extensively tested and certified by GMG. GMG ColorServer is shipped with a large amount of profiles for various industry

printing standards. If individual profiles are needed, ProfileEditor which is included in the package may be used to create and edit GMG 4D color profiles. GMG profiles can be self created for conversion from RGB to CMYK as well as from one CMYK printing standard to an inhouse standard or vice versa. The GMG Gamut Mapping takes care of the optimal conversion of colors both in visual and colorimetric regard. The aim is to maintain the color appearance of the original colors even when printed on different paper types.

Wide range of applications and industries

The flexibility and versatility of GMG ColorServer is demonstrated by the wide range of customers that includes agencies with their own prepress departments, repro houses and prepress businesses, printing companies of all types, as well as newspaper, periodical and book publishers.

For more information about GMG ColorServer, please contact your GMG dealer or visit us at www.gmgcolor.com.

Technical Data GMG ColorServer

Software requirements	
Operating system	Microsoft Windows 2000, 2000 Server, 2003 Server, XP Professional, Vista
Hardware requirements	
Processor	Intel Pentium Dual Core, min. D950, 4 MB Level 2 (L2) Cache
Memory	2 GB RAM, min. 80 GB hard disk
Miscellaneous	CD-ROM, min. 2 x USB 2.0, network card
Features	
Advantages	Fully automatic, top-quality color conversion. CMYK-to-CMYK conversion, retaining the properties of the black channel. Reseparation to harmonize the separation of the entire print job. Reduction of the total color coverage within a color space. ICC profiles are also supported. Automatic scaling (adjustment of the resolution), sharpening and separation of RGB data. Separate processing of pixel and vector elements within a document. PDF-to-PDF conversion, including scaling, sharpening and separation of embedded RGB data. Conversion of RGB data (AdobeRGB, ECI-RGB, sRGB).
Features	
Advantages	Maximum degree of automation due to hot-folder technology. Further processing of PDF documents as PDF/X-3 or X-1 document including incorporation of the output intent. Integration in all workflows using separate or combined processing with GMG color profiles and ICC profiles. Cost savings due to standardization, workflow optimization and shorter production times.
Input formats	PDF (up to 1.4), PostScript, TIFF, TIFF-IT, JPEG, CT/LW, EPS (Photoshop® pixel data)
Output formats	PDF (with PDF-to-PDF), TIFF, TIFF-IT, JPEG, CT/LW, EPS (Photoshop pixel data)
Supported languages	English, German, French, Italian, Spanish, Portuguese, Polish, Turkish, Chinese, Japanese, Korean
Scope of supply	GMG ColorServer on CD; Profiles for common standards, such as PSR, ISO, SWOP, GRACoL, Japan Magazine & Publishing Standard Color (JMPA color), 3DAP, sRGB, AdobeRGB and ECI-RGB; User Manual; USB dongle
Software components	GMG ColorServer Pro
Options	Extended workflow integration via GMG Connect



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