

## Preflight, Standardization and Optimization of CMYK Separations and Data



• **Alwan CMYK Optimizer®** is the first preflighting, standardization and optimization software for CMYK separations and data. It helps pre-media and prepress companies produce printable files, and allows printers to control and improve the printability of the files they receive by optimizing their separation for the destination process/press/paper.

▣ The files made compliant using CMYK Optimizer generate reproducible proofs as well as plates and cylinders with improved printability on the press.

### Preflight

• In «**Check Only**» mode, CMYK Optimizer parses the input files and performs a detailed analysis of images as well as PDF documents content (images, tints, fonts, vector graphics). Any non-compliant element is identified and mentioned in a report that you can use for your internal information or with your clients.

*The following parameters compliancy can be checked :*

- Total Area Coverage (TAC)
- Black generation
- ICC profile used for the CMYK separation.



### Standardization

• In «**Check and Optimize**» mode, CMYK Optimizer only corrects the contents that have a non compliant separation.

• Furthermore, with «**Preserve Original Separations**» option, original files separation remains untouched.

▣ Only those areas having excessive TAC that may cause printability problems are corrected, without any effect on the original colours.

### Optimization

• In «**Optimize Always**» mode, CMYK Optimizer allows you to adapt the colour separation of all the contents of a document in order to optimize their printability and ink consumption.

Alwan  
Color Expertise



All visuals of the same title (*editorial, Ad1, Ad2*) will be colour separated with the same profile and the same GCR according to your choice or to the printer specification.

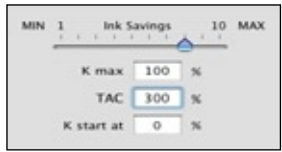
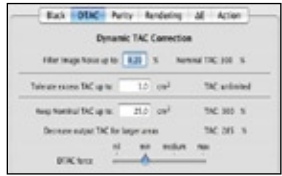
With an appropriate and common colour separation to all pages, the risks of compromise and set-off on the press are eliminated, inking time is reduced and the match between print and calibrated proof is perfect.

### PDF Compliancy with Maximum Security

- With **CMYK Optimizer**, CMYK separation and TAC of the entire PDF contents can be made compliant to chosen specifications without any risk. As a matter of fact, **CMYK Optimizer** parses the entire PDF file, measures the colour separation and TAC values of every image and graphic object and corrects non-compliances only if necessary and if you ask for it. **The compliant PDF is then saved with exactly the same structure as the original PDF.**  
Your files printability is hence greatly improved, without any risk.

### Technical Innovations

- ICC DeviceLinkProfiles** : Alwan's DVLPs preserve original colors as well as text and tints purity.
- DTAC® (Dynamic TAC correction)** : **CMYK Optimizer** calculates the area the ink values of each image and object in order to correct the TAC in a unique and dynamic way which corrects for any excess ink while maintaining visuals contrast and colours.
- Ink Savings** : **CMYK Optimizer** uses new generation algorithms which can, for a chosen press profile, optimize the colour separation and save up to 30% of ink consumption.



**System requirements**  
Mac OS X (10.3 or later)  
Minimum : G4/512 MB RAM (1GB RAM for dual-processors)  
Recommended : dual-processors G5 / 2 GB RAM  
Optimized for dual-processors

**Supported formats**  
Image Files : EPSF, JPEG, TIFF, PICT, PDF...  
Documents : PDF, PDF-X, EPS, TIFF-IT...

**Networking**  
Easy integration in multi-platform networks using FTP, samba, afp...

**Performance**  
xServe G5 2 x 2 Ghz, 2 GB RAM:  
1300 pages per hour (broadsheet format, CMYK Optimizer Server 1.7 mode «Check & Optimize», 100% files tested, 60% non-compliant files requiring optimization).

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«We originally considered the CMYK Optimizer solution as a possible alternative to the CMS framework built into our existing Dalim workflow. Extensive testing proved that the technology was not only an alternative but in fact a clear enhancement to the entire process... FTP integration meant that the process was completely invisible to the users. We use the system for all of our Newspaper and magazine conversion work.» **Patrick Mulvaney - Joint Managing Director - VERTIS PRS London.**

«CMYK Optimizer has revolutionized the way we prepare image separations for print whether it be Web, Gravure, or Newsprint... The technology works and we highly recommend the system to others wishing to automate procedures and improve separation quality.» **Ben Terry - Production Director - Splash Pre-Media London.**

«We recommend the use of CMYK Optimizer Server because it addresses a real need for the standardization of separations files. For us at UGRA, it is the perfect complement to our standardization services. There is no standardized print without standardized data!» **Erwin Widmer - Managing Director - UGRA Switzerland.**

