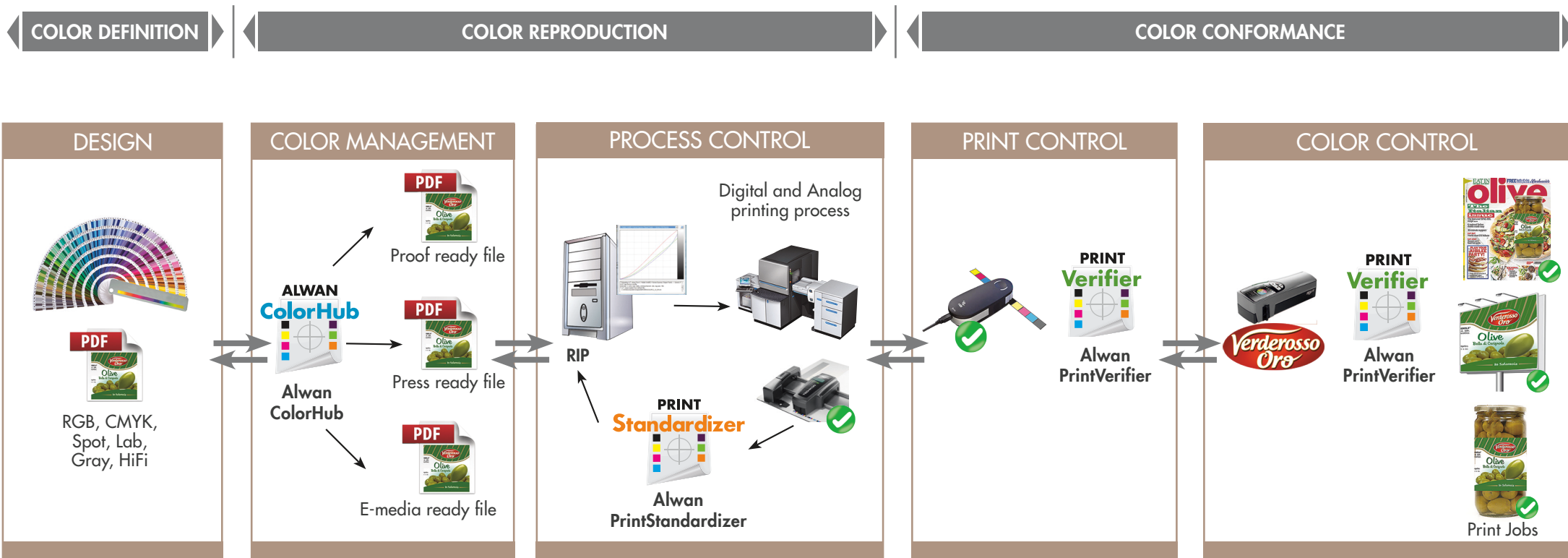


Universal Printing Workflows

Alwan
Color Expertise



ALWAN COLOR EXPERTISE - info@alwancolor.com

Copyright 2014 Alwan Color Expertise. All right reserved. All trademarks, logos, and brand names mentioned in this publication are property of their respective owners. All images and photographs here featured are the copyright of their respective owners. Alwan Color Expertise reserves the right to modify software specifications and content cited in this document without prior notice.

Universal Printing Workflows



COLOR DEFINITION

COLOR REPRODUCTION

COLOR CONFORMANCE

DESIGN

COLOR MANAGEMENT

PROCESS CONTROL

PRINT CONTROL

COLOR CONTROL

Definition

Designers create and prepare images and documents with intended printing results and quality requirements according to print buyer expectations. These expectations should be available with the PDF file which is used for proofing and printing.

Requirements

- PDF/X files should be used: ISO 15930.
- Proofing standards should be applied: ISO 12646 and ISO CD 14861 for Softproofs, ISO 12647-7 for Hardproofs or ISO 12647-8 for Validation Prints.

Alwan Key features

- Alwan Color Library identifies PDF/X Output Intent, Process Spot inks, and Brand colors.
- Alwan Job Color Ticket (JCT) identifies printing aims, tolerances and scoring specified by print buyer.
- Alwan suite of software manages these informations from file reception - to process control - to quality control of print buyer's colors.

Received PDF files should be preflighted. Content color description and color separation should be identified. PDF content should be color managed to match pertinent printing standard or optimized to match actual process printing conditions.

- ICC Color Management - ISO 15076 - should be used.
- Color Separation should be optimized to the actual output process.

- Identification of Job color requirements in terms of Color Library and Job Conformance.
- Dynamic ICC Color management: unequalled color accuracy, match with Adobe applications output, and printability.
- Adobe PDF library: unequalled reliability, match with Adobe PDF Print Engine, and compatibility with third-party RIPs .

Printing Process solids and Tone Response Curves should be controlled and adjusted in order to match intended printing conditions, standard or custom. Process should be controlled in production and up-to-date TRC adjustment curves should be applied on the RIP prior to outputting printing forms.

- Conformance to ISO 12647-2, ISO 12647-3, ISO TS 10128, CGATS TR015 or ISO 15339 should be established.
- Updated Adjustment curves should be made available to production RIP: ISO/WD 18620

- Identification of Job color requirements in terms of Color Library and Job Conformance.
- Dynamic Printer and press calibration: unequalled TVI and Gray Balance accuracy, stability, and conformance.
- Continuous process improvement: conventional and digital; CMYK, Spot only, CMYK + Spot, and multicolor (HiFi)...
- Process conformance reports: Sheet deviation and production variation reports: PDF, xml, on-site and online.

Printed colors (not only process inks) should be measured and assessed. A printing process can be qualified to conform to a given Color Reference Printing Condition (CRPC). Production quality level should be assessed as well.

- System Qualification according to ISO 15339, ISO TS 15311
- Production verification (Sheet Deviation and Production Variation): ISO 15339, ISO TS 15311
- Quality level A, B or C: ISO 15339, ISO TS 15311

- Identification of Job color requirements in terms of Color Library and Job Conformance.
- Assesses all printing processes: conventional and digital; CMYK, Spot only, CMYK + Spot, and multicolor (HiFi).
- Print conformance and quality level reports: System qualification, sheet deviation and production variation reports: PDF, xml, on-site and online.

Brand and customer colors should be measured and assessed. Printed color should match the agreed-on reference: swatchbook, measured, spectral, CIE Lab, device values... within agreed-on tolerances and Quality level.

- Spot color definition: ISO 17972-4 (CxF3)
- Printing Tolerances and Quality Level: ISO 15339, ISO TS 15311

- Identification of the Job requirements thanks to the shared Alwan Color Library and Job Color Ticket (JCT).
- Assesses brand colors on printed products or on color strips.
- Color conformance and quality level reports: Color deviation and production variation reports: PDF, xml, on-site and online.