Nick Del Verme Advanced Digital Textiles, LLC Mike Strickler MSP Graphic Services

# **Company Profile:**

Advanced Digital Textiles Provider of on-demand textile printing

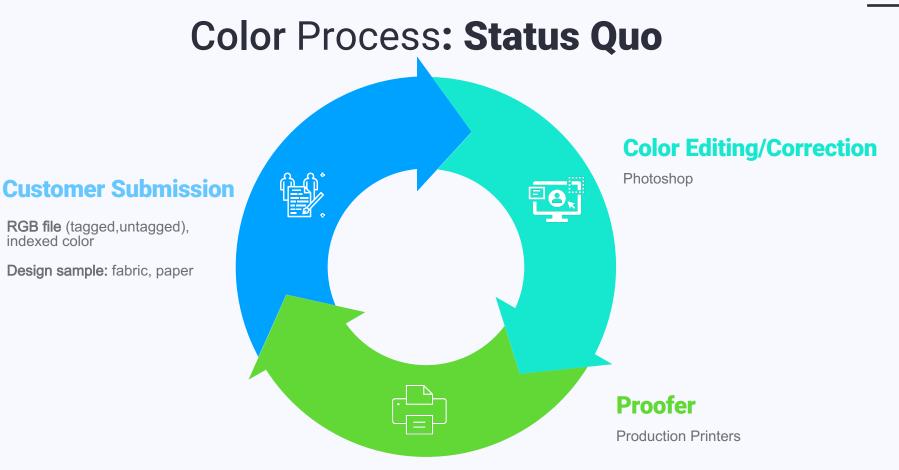
- Founded: 2003
- o Location: Monroe, North Carolina, USA
- o Facility: 3000 m2
- **Employees:** 24
- Chief sectors: Hospitality, Home Decor



# **Print Processes:** Advanced Digital Textiles

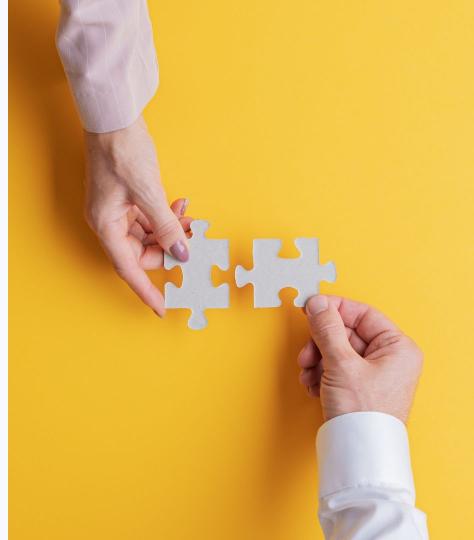
- o Dye Sublimation
- Fibre Reactive
- o Pigment
- o Direct Disperse
- $\circ$  Latex





# The Challenge

- Compress color matching stage and time to market!
- Determine best approach based on provided digital artwork
- o Adjust color to specified color standard
- Maintain color consistency across all processes and substrates and over time



# **The Proof Production Cycle**

Example: Direct Disperse Process / 20-25 minutes



### **Example**: Fibre Reactive / 1-4 Hours



# **Customer File Submission:** Indexed Color



# **Correction Process:** Color-by-Color



# Variations multiply the task

One design, many "colorways"



# **Difficulties**

- Multiple corrections of individual colors
- Lack of accurate soft proof to guide corrections
- No preview of multicolor output
- Lack of background in color correcting images/global color correction
- Instability of certain printing processes













#### Soft Proofing System

#### **Training/Best Practices**

Photoshop, synchronized CM settings

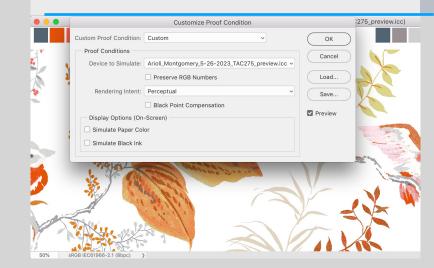
#### **Process Control**

**Profile updating** 

#### **Deploy Color Server**

Queues for production and proofing w/color server

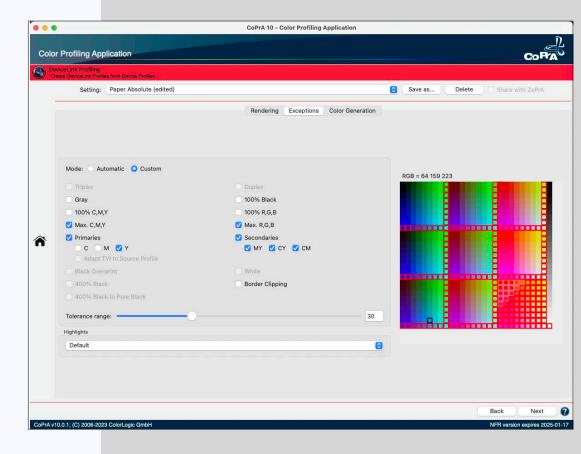
# Name: Artoli\_Montgomery\_5-28-2023\_TAC275[icc Format: ICC v4 Size: Large Further Processing Create Profile Report (PDF) Calculate Multicolor Profile Variants V 3CLR V 3CLR Create Profile Variant Reports (PDF) Calculate Multicolor Profile Create Profile Variant Reports (PDF) Calculate CMYK Profile State Proview Profile



# 01 New output profiles include multicolor preview profiles

# **02** Improved Color Quality

RGB DeviceLinks with auto-exceptions using ColorLogic CoPrA



### "Cleaner," deeper RGB Primaries and Secondaries



03

# Standardize

# On *D50* illuminant, 10 Degree Observer

"Where a light source having a different spectral distribution is used, it shall be agreed by the interested parties." - ISO 3668 (5.2)

Color Profiling Application Primer Profiling Create Output Profiles from measurement Data Setting: Enhanced Saturation (edited)	CoPrA 10 - Color Profiling Application
Perceptual Rendering Absolute Compression Advanced Perceptual Rendering Options Saturation Gray Balance: cooler Measurement Processing Brightener Compensation G7 Correction Weasurement Correction Viewing Condition: Default (D50) 96.42 100.0 82.49 Observer 2 Degrees 10 Degrees Highlights Default	General Color Generation
PrA v10.0.1; (C) 2006-2023 CalorLogic GmbH	Back Next NFR version expires 2025-01

# 04 Soft Proofing

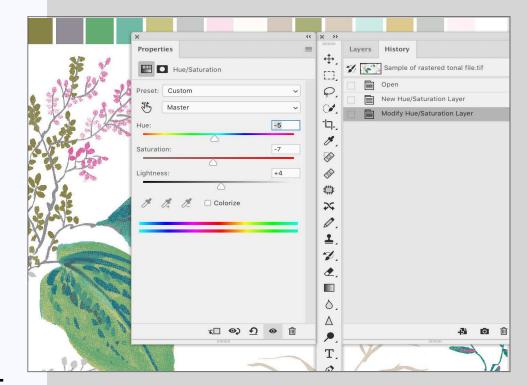
Include RGB *multicolor* preview profiles for accurate desktop proofing





### **05 Training:** Photoshop skills:

- Default CM settings; synchronize in Bridge
- o Proof Setup
- Image/global color corrections Curves, hue-saturation (color range, tolerance)
- o Selections, eyedropper tool, color picker
- o Adjustment layers



# 06

# **Process Control:**

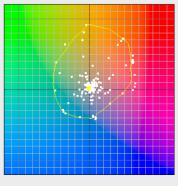
### **Profile Updating**

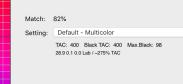
o Small charts-fast

#### $\circ$ Feedback

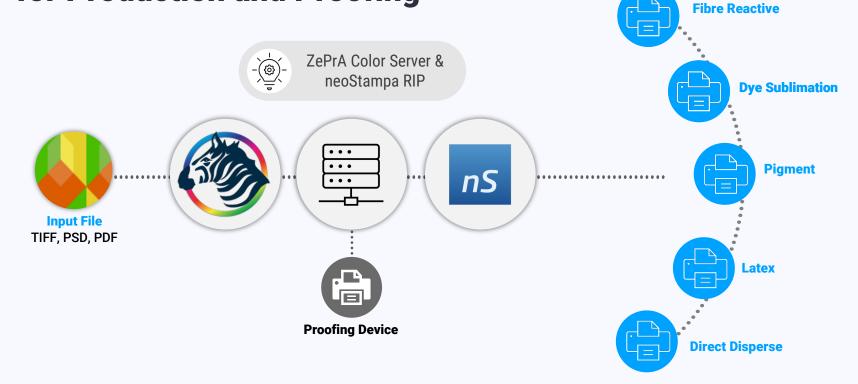
o Save as correction devicelink



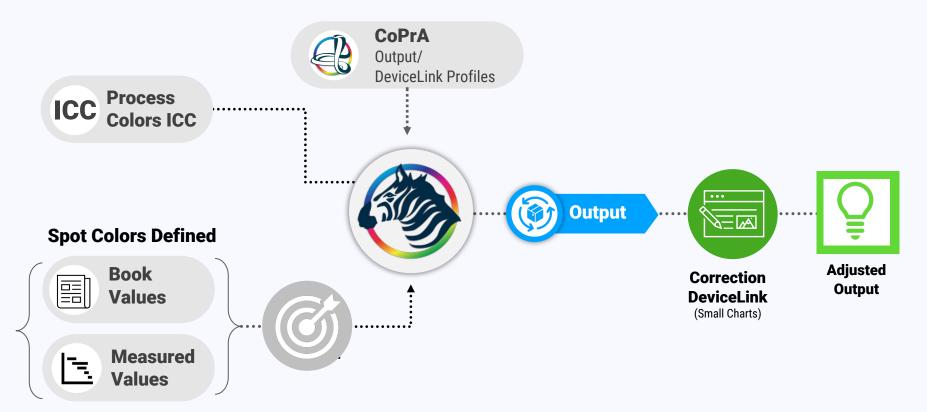


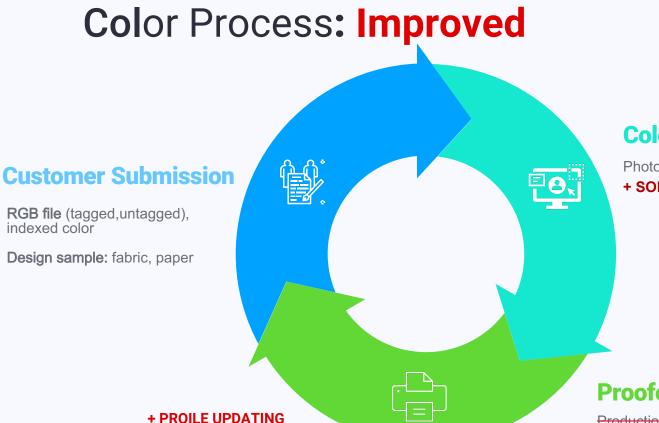


# **07** Color Server with Queues for Production and Proofing



### **Overall Color Conversion** Process





#### **Color Editing/Correction**

Photoshop + PHOTOSHOP SKILLS + SOFT PROOFING

### **Proofer**

Production Printers (EPSON PROOFER)

# Results & Moving Forward

# **Initial Results**

- 1. Some colorists showed some hesitation as they feared that the change would cause a loss of time and effort.
- 2. It did not take very long for staff to realize it was worth the training to implement this new process.
- 3. The downtime spent was quickly recovered based on the instant reduction in the amount of total print trials.
- 4. Colorists claim that the calibration of the monitor to the actual print profile has been a great help. It allows for a great start!



### Maintenance Agenda

- Ongoing monitoring and documentation of print process variables to maintain a consistent output.
- Continued updating of output profiles (correction devicelinks)



# Moving Forward

- Continued assessment of results and need to update output profiles (correction device links)
- Push training out to additional employees
- Add additional workstations
- Implement soft proofing of Illustrator files and PDFs
- Improve communication with customers re color management/file prep



# **Thank You**





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